

# Petroleum Marketing Monthly

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**With Data for October 1998**

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# Preface

The *Petroleum Marketing Monthly* (PMM) provides information and statistical data on a variety of crude oils and refined petroleum products. The publication presents statistics on crude oil costs and refined petroleum products sales for use by industry, government, private sector analysts, educational institutions, and consumers. Data on crude oil include the domestic first purchase price, the f.o.b. and landed cost of imported crude oil, and the refiners' acquisition cost of crude oil. Refined petroleum product sales data include motor gasoline, distillates, residuals, aviation fuels, kerosene, and propane. The Petroleum Marketing Division, Office of Oil and Gas, Energy Information Administration ensures the accuracy, quality, and confidentiality of the published data in the *Petroleum Marketing Monthly*.

## Scope of Data

The data within the *Petroleum Marketing Monthly* are compiled from six Energy Information Administration (EIA) survey forms. The crude oil statistics are calculated from data collected on the following three survey forms: Form EIA-182, "Domestic Crude Oil First Purchase Report"; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report"; and Form EIA-14, "Refiners' Monthly Cost Report."

The statistics on petroleum product sales prices and volumes are derived from Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

The data presented in Tables 48 to 50 are derived from aggregations of data from Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

## Sections

Monthly statistics on purchases of crude oil and sales of petroleum products are presented in the *Petroleum Marketing Monthly* in five sections:

- Summary Statistics
- Crude Oil Prices
- Prices of Petroleum Products
- Volumes of Petroleum Products
- Prime Supplier Sales Volumes of Petroleum Products for Local Consumption.

The publication highlights salient statistics for the United States in the Summary Statistics section. More detailed geographic coverage occurs in the other four sections. Geographic coverage for crude oil includes country of origin for foreign crude and Petroleum Administration for Defense (PAD) Districts and individual States for domestic crude oil. Geographic coverage of the petroleum products includes PAD Districts and individual States.

Detailed statistics for crude oil, including the price of imported crude oil by country of origin, by gravity, and by crude stream, can be found in the Crude Oil Prices section.

PAD District and/or State-level statistics for petroleum products are presented in the Prices, Volumes, and Prime Supplier Sales of Petroleum Products sections. To aid the reader in determining the market changes, the majority of the tables show data for the report month and previous month for the current year, and the report month for the previous year.

## Notes on the Tables

- For the crude oil statistics referencing Form EIA-182, United States includes the 50 States, the outer continental shelf, and the District of Columbia. For crude oil statistics referencing either Form EIA-14 or Form EIA-856, United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American territories and possessions. For the petroleum products data, United States includes the 50 States and the District of Columbia.
- Prices exclude taxes. Refer to the Explanatory Notes for a tax table on motor fuels.
- Some of the tables use State abbreviations. Refer to the Explanatory Notes for a table of U.S. Postal State abbreviations.
- Sales of leaded gasoline are reported in the Conventional gasoline category by appropriate grade in the Prime Supplier Sales Volumes section, but are excluded from gasoline sales prices and volumes in all other sections of the publication.
- Leaded gasoline is a component of averages and totals prior to October 1993.
- References to "Refiners" include gas plant operators (see the Glossary for definition of "Gas Plant Operators"). All tables whose titles do not specifically reference "Refiners" contain data from all sellers. "All Sellers" includes refiners, gas plant operators, resellers, and retailers.
- "Prime Supplier" refers to a firm that produces, imports, or transports any of the selected petroleum products across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users.
- The category "Retail Outlet" refers to any company-operated outlet selling gasoline, on-highway low-sulfur diesel fuel, or propane for on-highway vehicle use (see Glossary).
- No. 2 distillate volumes and prices are classified in accordance with what the product was sold as, regardless of the actual specifications of that product (see definitions of No. 2 distillate in the Glossary).

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## Highlights



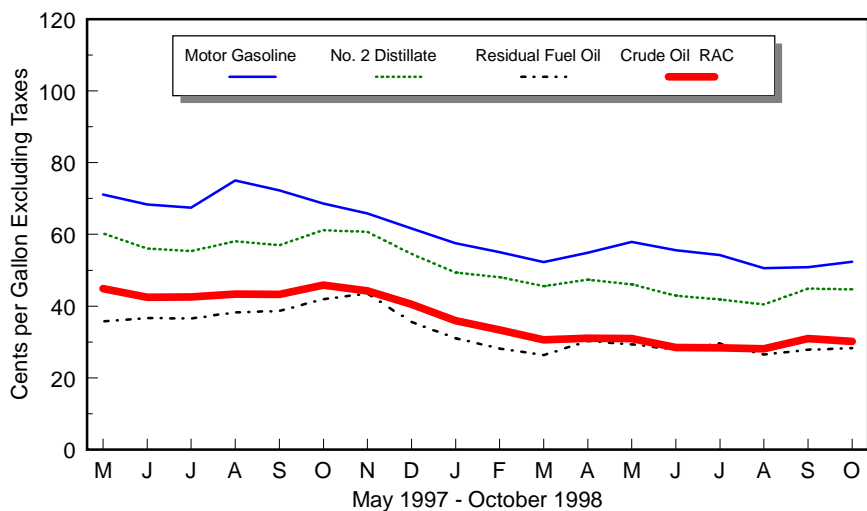
# Highlights

International crude oil prices fell during October, as the ongoing surplus of crude oil and finished products throughout world markets reasserted its influence on market prices. The overabundance of product counteracted the energizing effect inclement weather and political affairs had on prices during September, underscoring observations that last month's increases were exaggerated given the actual consequences and substance of the storms and political activities. Coupled with a fairly stagnant rate of demand in most major markets, crude oil prices gave way and lost most of the ground gained during September. Compounding the impact of brimming inventories on market prices, wellhead production remained solid. Although members of the Organization of Petroleum Exporting Countries (OPEC) continued to adhere to their reduced production quotas during October, the opinion that the current level of cuts is insufficient to fully address the problem of slumping prices is becoming more widespread. During a meeting at the beginning of October in Cancun, Mexico, representatives from Saudi Arabia, Venezuela, and Mexico called for a 6-month extension of the OPEC production cuts. Contributing to the excess of supply, output from non-OPEC sources, particularly the North Sea, rose during October. North Sea wellhead production increased again this month following a period of scheduled maintenance on production facilities during early autumn.

Price trends for crude oil and finished products in the United States were influenced by a number of factors in October, ranging from the weather to technical market functions. At the start of the

month, prices were still supported by effects of Hurricane Georges, which caused substantial flooding along the Gulf Coast in late September. The storm brought about the closure of production and refining facilities in that region and market players had expected that product stocks would fall considerably. However, as product supply reports indicating unfavorable trends were released, prices for the major products dropped sharply in most regional markets. In notable contrast, prices on the West Coast jumped as a series of refinery outages began (and continued throughout the month), contributing to significant stock reductions in this region's markets. By the latter half of the month, prices began to rebound moderately as stockdraws for gasoline and distillates were reported. Average monthly data indicates that finished gasoline stocks fell 2.7 percent during October, while distillate stocks dropped 3.3 percent. However, when compared to year-ago numbers, the data reveal current levels are still well above those seen last year at this time. By the close of the month, the threat of a

**Figure HL1. Crude Oil and Petroleum Product Wholesale Prices**



Sources: Energy Information Administration. Crude oil refiner acquisition cost: Form EIA-14, "Refiners' Monthly Cost Report"; petroleum product prices: Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table HL1. U.S. Refiner Prices and Volumes of Petroleum Products**

(Prices: Cents per Gallon Excluding Taxes, Volumes: Million Gallons per Day)

Products	Sales to End Users						Sales for Resale					
	October 1998		September 1998		October 1997		October 1998		September 1998		October 1997	
	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume
<b>Motor Gasoline</b> .....	66.4	65.1	65.4	65.2	84.3	64.4	52.4	300.8	50.9	299.2	68.5	299.6
<b>Conventional</b> .....	64.1	40.5	62.6	39.2	80.2	38.9	49.5	200.0	47.8	199.3	64.1	203.0
Regular .....	60.0	27.9	58.5	27.0	76.3	27.5	47.3	151.5	45.6	150.7	62.0	156.4
Midgrade .....	69.5	6.6	68.2	6.3	86.1	6.1	53.5	16.2	51.4	15.8	68.1	16.7
Premium .....	77.3	6.0	75.5	6.0	93.6	5.2	58.0	32.3	56.1	32.8	72.6	29.9
<b>Oxygenated</b> .....	72.5	2.1	70.1	2.1	92.6	2.8	58.0	9.1	58.3	6.9	77.6	8.2
Regular .....	69.4	1.6	67.4	1.6	89.9	2.2	55.9	6.7	56.6	5.2	76.0	6.3
Midgrade .....	78.4	0.3	76.5	0.3	98.6	0.4	59.8	1.2	59.3	1.0	79.7	1.1
Premium .....	87.3	0.2	85.3	0.2	107.2	0.3	67.8	1.2	68.1	0.8	87.0	0.8
<b>Reformulated</b> .....	70.0	22.5	69.6	23.9	90.4	22.7	58.1	91.8	57.0	93.0	77.9	88.4
Regular .....	64.9	14.6	64.7	15.7	86.1	15.3	54.4	60.5	53.4	61.5	74.5	59.1
Midgrade .....	75.3	3.9	75.2	4.0	95.8	3.8	62.4	10.6	61.6	10.5	82.9	10.9
Premium .....	83.4	4.0	83.0	4.2	102.9	3.6	66.7	20.7	65.5	21.0	85.8	18.4
<b>Aviation Gasoline</b> .....	95.1	0.2	94.1	0.2	113.9	0.2	90.7	0.7	89.8	0.7	104.7	0.6
<b>Kerosene-Type Jet Fuel</b> .....	46.9	50.4	44.9	48.0	61.5	49.8	45.9	12.6	44.6	10.8	61.1	11.7
<b>Propane (Consumer Grade)</b> .....	40.7	2.7	37.4	2.3	52.3	3.5	27.6	37.8	26.3	31.8	41.1	34.7
<b>Kerosene</b> .....	50.6	0.3	46.2	0.4	72.9	0.2	46.3	2.0	45.9	1.4	63.8	2.7
<b>No. 1 Distillate</b> .....	57.9	0.4	NA	NA	66.8	0.3	53.7	1.4	53.3	0.9	72.1	1.6
<b>No. 2 Distillate</b> .....	49.7	25.4	49.2	25.7	64.3	26.2	44.7	124.2	44.9	117.5	61.2	126.0
No. 2 Fuel Oil .....	47.8	3.4	47.2	3.3	63.2	3.1	41.2	25.8	41.8	21.0	59.0	26.1
No. 2 Diesel Fuel .....	50.0	22.1	49.5	22.4	64.5	23.1	45.6	98.5	45.6	96.6	61.7	100.0
Low Sulfur .....	51.4	15.2	51.1	15.0	66.0	15.3	45.9	85.0	46.1	82.0	62.0	83.4
High Sulfur .....	46.9	6.8	46.1	7.4	61.6	7.8	43.4	13.5	42.5	14.5	60.2	16.5
<b>No. 4 Fuel<sup>a</sup></b> .....	43.1	0.2	39.9	0.3	55.5	0.3	35.3	0.1	36.1	0.1	56.8	0.1
<b>Residual Fuel Oil</b> .....	29.5	14.9	27.6	13.0	43.9	15.1	28.3	17.2	27.9	17.4	42.0	12.4
Sulfur Content not > 1 % .....	33.7	4.1	32.4	3.2	48.2	2.9	31.0	5.4	29.9	5.3	44.6	5.7
Sulfur Content > 1 % .....	27.9	10.8	26.0	9.8	42.9	12.2	27.1	11.9	27.0	12.2	39.7	6.7

NA = Not available.

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

late season storm entering the Gulf of Mexico, Hurricane Mitch, provided some short-lived pressure on prices before it was determined not to be a threat to production, refining and transportation facilities in the United States.

More October market and sales activity for crude oil and the principal petroleum products are summarized in the following sections.

## Crude Oil

Growing stockpiles of crude oil played a primary role in the decline of the daily spot price for West Texas Intermediate (WTI) crude oil at Cushing, Oklahoma during October. After opening the month at \$16.19 per barrel, the price decreased over the next several weeks as reports indicated a growing oversupply of crude oil in the U.S. and abroad. Following the low of \$13.39 per barrel on October 19, the price regained some drive as market technical factors provided enough support for a rise in level. The price closed October at \$14.48 per barrel, \$1.71 per barrel lower than where it began the month.

- October monthly average crude oil prices show modest changes from September levels. The average domestic crude oil first purchase price increased 8 cents (0.7 percent), to \$11.36 per barrel.
- The average free-on-board (f.o.b.) cost of imported crude oil dropped 75 cents (6.4 percent), to \$10.98 per barrel. The average landed cost of foreign crude oil fell 46 cents (3.7 percent), to \$12.12 per barrel.
- The monthly average refiner acquisition costs for domestic crude oil remained essentially flat, rising only 2 cents (0.1 percent), to \$13.42 per barrel. The average cost of imported crude oil to U.S. refiners decreased 60 cents (4.7 percent), to \$12.18 per barrel. The composite refiner acquisition cost of crude oil fell 36 cents (2.8 percent), to \$12.68 per barrel.

## Petroleum Products

### *Motor Gasoline*

At New York Harbor, the daily spot price for unleaded regular gasoline followed a somewhat tortuous path during October. Opening at 46.9 cents per gallon, the price moved to its high of 47.3 cents per gallon on October 6, only to drop precipitously afterwards as reports indicated smaller-than-expected stock draws. After reaching the low of 40.7 cents per gallon on October 19, the price underwent a moderate resurgence during the latter part of the month before closing at 43.5 cents per gallon, 3.4 cents per gallon lower than where it started October.

- October monthly average gasoline prices exhibit nominal changes from September values. The average price for motor gasoline retail sales by refiners rose 1.0 cent to 66.4 cents per gallon, while the average wholesale price increased 1.5 cents to 52.4 cents per gallon. Including data reported by a sample of motor gasoline marketers, the national average retail price at company-operated retail outlets rose 0.9 cent to 64.9 cents per gallon. The average wholesale price grew 1.3 cents to 52.6 cents per gallon. The average dealer tank wagon (DTW) price increased 0.5 cent to 59.3 cents per gallon. The average rack price climbed 1.5 cents to 50.1 cents per gallon. The average bulk sales price rose 1.6 cents to 44.4 cents per gallon. The difference between reformulated and conventional gasoline
- prices at retail was 4.2 cents, and at wholesale, 6.6 cents. The margin between conventional and oxygenated gasoline prices was 8.1 cents and 7.8 cents at retail and wholesale, respectively.
- Finished motor gasoline sales by refiners during October show only marginal changes. Total sales increased 1.5 million gallons per day (0.4 percent), to an average of 365.9 million gallons per day. Retail sales dropped 100,000 gallons per day (0.2 percent), while wholesales rose 1.6 million gallons per day (0.5 percent). Rack sales constituted 63.2 percent of total wholesales, while DTW and bulk sales accounted for 24.7 percent and 12.1 percent, respectively. Reformulated gasoline (RFG) made up 31.2 percent of total motor gasoline sales, while oxygenated gasoline explained 3.1 percent of sales.

### *No. 2 Distillate*

The October daily spot price for No. 2 heating oil at New York Harbor gave back most of the gains made during September as high stocks levels persisted and demand remained relatively listless. Opening at its highest level, 43.3 cents per gallon, the price slid throughout the first half of the month, before reaching the low of 36.9 cents per gallon on October 15. Rebounding moderately during the latter half of October, the price closed at 39.5 cents per gallon, 3.8 cents lower than its opening level.

- Like gasoline prices, October monthly average prices for No. 2 distillates experienced only minimal changes. The national average residential price increased 1.6 cents to 78.6 cents per gallon, while the average wholesale price dropped 0.2 cent to 45.3 cents per gallon. The average price for No. 2 diesel fuel at company-operated retail outlets inched up 0.7 cent, while the average wholesale price remained essentially flat. The margins between low- and high-sulfur diesel fuel prices were 0.3 cent at retail and 1.6 cents at wholesale.
- Refiner sales of No. 2 distillate increased once again during October. Total sales increased 6.5 million gallons per day (4.5 percent), to 149.8 million gallons per day. Sales of No. 2 fuel oil rose 4.9 million gallons per day (20.2 percent), while sales of No. 2 diesel fuel increased 1.6 million gallons per day (1.3 percent). Low-sulfur diesel fuel sales constituted 83.1 percent of all refiner diesel fuel sales, and 66.9 percent of all refiner No. 2 distillate sales.

## ***Residual Fuel Oil***

- Average residual fuel oil prices increased in all categories during October. Refiner prices for low-sulfur residual fuel rose 1.3 cents to 33.7 cents per gallon at retail, and 1.1 cents to 31.0 cents per gallon at wholesale. Refiner high-sulfur residual fuel prices grew 1.9 cents to 27.9 cents per gallon at retail, and 0.1 cent to 27.1 cents per gallon at wholesale. Including data reported by the sample of residual fuel oil marketers, the average low-sulfur price rose 1.5 cents to 33.4 cents per gallon at retail, and 1.6 cents to 31.4 cents per gallon at wholesale. The average price for high-sulfur residual fuel oil increased 1.9 cents to 28.2 cents per gallon at retail, and 0.1 cent to 27.1 cents per gallon at wholesale.
- Refiner residual fuel oil sales grew in October. Total sales rose 1.7 million gallons per day (5.6 percent), to 32.1 million gallons per day. Low-sulfur residual fuel sales increased 1.0 million gallons per day (11.8 percent), while high-sulfur residual fuel sales rose 700,000 gallons per day (3.2 percent).

## ***Other Products***

- Prices generally increased during October for products included in this section. Refiner propane prices rose 3.3 cents per gallon at retail, and 1.3 cents at wholesale. Including the sample of propane marketers, the average residential propane price increased 1.1 cents per gallon. The average end-user price for propane remained flat while the average wholesale price rose 1.5 cents per gallon. Prices for kerosene-type jet fuel, aviation gasoline, and kerosene increased at both levels. No. 4 distillate prices rose at retail and fell at wholesale while No. 1 distillate rose at wholesale.
- October sales of products in this grouping were mixed. Propane and kerosene-type jet fuel rose at both levels while aviation gasoline fell at both retail and wholesale. Sales of kerosene and No. 4 distillate increased at wholesale and fell at retail, while No. 1 wholesales increased.



# Initial Estimates

## **EIA Responds to Customer Requests for More Timely Data**

The Energy Information Administration (EIA) is publishing initial estimates for selected petroleum product prices within 3 weeks after the close of the reference month. Historically, estimates for petroleum product prices are published in the Petroleum Marketing Monthly approximately two to three months after the close of the reference period. In an effort to respond to customer needs, initial estimates for selected products are being published earlier. These initial estimates are replaced with the preliminary and final prices according to the current schedule.

The initial estimates are forecasted using autoregressive integrated moving average (ARIMA) transfer function models. Transfer function models are ARIMA models which use input data series as predictors. The initial estimates are calculated based on their own past values and present and past values of other related time series, such as spot prices and heating degree-days. At least 5 years of data are used to obtain the forecasts.



**Table IE1. Initial Estimates for Selected Crude Oil and Petroleum Products  
by Sales Type and PAD District**  
(Crude Oil in Dollars per Barrel, Products in Cents per Gallon Excluding Taxes)

Products Sales Type Geographic area	1997											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Crude Oil</b>												
<b>Refiner Acquisition Cost</b>												
Domestic .....	24.25	22.49	20.57	19.02	19.08	18.31	18.25	18.47	18.48	19.68	19.23	17.92
Imported .....	23.02	20.88	19.16	17.83	18.55	17.35	17.49	17.96	17.85	18.73	17.88	15.95
Composite .....	23.59	21.64	19.82	18.35	18.79	17.80	17.84	18.19	18.14	19.17	18.52	16.91
<b>Motor Gasoline</b>												
<b>Sales to End Users Through Retail Outlets</b>												
<b>Regular</b>												
U.S. ....	84.2	83.1	80.8	80.0	80.4	79.4	77.9	82.9	82.8	79.9	77.0	72.8
PADD 1 .....	84.6	83.1	79.9	77.7	76.6	76.1	74.8	80.1	80.8	77.9	74.6	71.1
PADD 2 .....	84.3	81.6	78.7	77.9	80.8	80.3	78.4	83.8	80.7	76.5	73.9	68.8
PADD 3 .....	81.8	81.2	78.4	77.0	76.7	75.9	75.2	79.1	78.5	75.6	73.4	69.9
PADD 5 .....	84.5	88.5	89.0	92.2	90.2	86.1	83.1	89.0	96.1	95.8	91.2	85.8
<b>Sales for Resale</b>												
<b>Regular</b>												
U.S. ....	73.0	71.0	69.2	68.2	69.0	66.0	65.3	72.4	69.8	66.3	63.5	59.3
PADD 1 .....	74.4	71.1	68.9	66.4	67.3	64.4	64.7	72.0	69.0	65.4	62.9	59.5
PADD 2 .....	73.0	70.4	66.7	66.5	70.8	67.4	66.6	72.8	67.1	62.9	60.9	56.1
PADD 3 .....	69.6	67.4	65.1	63.4	64.2	61.6	61.3	67.1	63.1	60.3	58.2	54.6
PADD 5 .....	74.1	76.3	78.0	80.2	74.1	70.1	67.6	78.3	85.1	81.8	75.1	71.0
<b>No. 2 Distillate Fuel Oil</b>												
<b>Sales to End Users, Residential</b>												
U.S. ....	107.9	105.1	101.6	99.2	96.4	92.3	88.3	86.9	88.7	92.3	94.1	93.8
PADD 1 .....	109.0	106.0	102.5	100.3	97.1	92.9	88.7	86.8	89.0	92.8	94.6	94.6
PADD 2 .....	99.7	97.7	93.2	90.7	90.4	87.0	83.3	84.2	84.4	87.1	88.3	85.8
PADD 3 .....	85.5	79.7	75.1	74.7	70.9	70.3	70.4	72.3	72.1	73.9	72.9	68.5
PADD 5 .....	108.5	109.1	109.3	107.7	103.9	102.5	103.3	101.6	103.6	104.3	105.7	102.4
<b>Sales to End Users Through Retail Outlets<sup>b</sup></b>												
U.S. ....	84.1	81.9	76.5	75.5	74.5	72.2	70.5	71.9	71.4	73.8	74.0	70.9
PADD 1 .....	85.2	81.1	75.3	74.0	72.9	71.4	70.1	71.1	70.5	72.8	72.6	70.3
PADD 2 .....	82.1	79.6	75.2	74.8	74.9	72.2	70.2	71.1	69.8	73.2	73.2	69.6
PADD 3 .....	82.3	79.3	72.2	70.3	69.5	67.7	66.7	67.7	67.2	69.2	69.4	66.4
PADD 5 .....	89.5	93.7	90.6	88.8	82.0	79.1	77.7	83.3	85.2	85.1	86.2	82.4
<b>Sales for Resale</b>												
U.S. ....	70.6	67.2	61.7	61.8	60.8	56.9	56.1	58.8	57.8	61.9	61.6	56.0
PADD 1 .....	71.9	65.9	58.9	60.0	59.6	55.7	55.9	57.4	56.2	60.6	59.8	55.8
PADD 2 .....	69.5	67.4	62.5	62.9	63.9	58.3	56.8	58.4	57.3	62.3	61.5	54.5
PADD 3 .....	67.9	64.3	57.6	56.6	57.0	53.8	53.6	55.4	54.2	59.3	58.7	53.9
PADD 5 .....	74.3	79.0	73.9	71.0	61.5	60.2	57.9	67.0	67.4	67.7	70.3	62.1
<b>Kerosene-Type Jet Fuel</b>												
<b>Sales to End Users</b>												
U.S. ....	74.4	71.7	61.9	60.2	58.9	57.6	56.7	59.1	58.2	61.5	61.2	56.3
PADD 1 .....	71.9	68.9	60.3	58.8	58.2	56.8	56.6	59.4	57.6	60.5	59.4	54.6
PADD 2 .....	71.7	69.6	60.6	59.3	58.5	57.7	58.1	60.0	58.0	61.5	60.8	55.6
PADD 3 .....	69.5	65.9	57.9	56.2	55.8	54.5	54.4	56.7	55.1	58.3	57.0	51.9
PADD 5 .....	80.9	78.9	65.6	63.8	60.7	59.5	56.8	59.5	60.3	64.2	65.6	61.0
<b>Sales for Resale</b>												
U.S. ....	73.8	71.5	61.8	60.6	59.4	58.1	56.9	59.1	58.9	61.1	61.3	55.6
PADD 1 .....	73.7	70.0	60.9	59.7	58.5	56.6	57.8	60.4	59.1	61.5	60.6	55.0
PADD 2 .....	74.0	71.5	64.1	61.7	62.1	60.5	59.5	61.0	59.6	62.9	62.6	56.8
PADD 3 .....	70.0	66.9	58.0	57.3	56.3	55.1	54.7	57.0	55.5	58.6	57.4	51.4
PADD 5 .....	79.1	80.1	67.3	64.9	62.8	62.3	58.8	62.0	63.2	65.0	65.9	61.7
<b>Residual Fuel Oil</b>												
<b>Sales to End Users</b>												
U.S. ....	50.6	46.3	41.3	40.4	40.1	40.3	39.8	40.9	41.5	44.6	46.8	41.5
<b>Sales for Resale</b>												
U.S. ....	43.7	39.8	36.7	36.4	36.7	37.2	37.4	38.8	39.0	42.9	44.7	37.3

See footnotes at end of table.

**Table IE1. Initial Estimates for Selected Crude Oil and Petroleum Products  
by Sales Type and PAD District**

(Crude Oil in Dollars per Barrel, Products in Cents per Gallon Excluding Taxes) — Continued

Products Sales Type Geographic area	1998											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov <sup>a</sup>	Dec
<b>Crude Oil</b>												
<b>Refiner Acquisition Cost</b>												
Domestic .....	15.87	14.77	13.52	13.47	13.52	12.43	12.39	12.45	13.40	13.42	12.22	
Imported .....	14.55	13.41	12.36	12.85	12.66	11.67	11.56	11.34	12.78	12.18	11.56	
Composite .....	15.14	14.03	12.87	13.10	13.01	11.98	11.92	11.79	13.04	12.68	11.89	
<b>Motor Gasoline</b>												
<b>Sales to End Users Through Retail Outlets</b>												
<b>Regular</b>												
U.S. ....	68.6	64.8	62.0	63.4	66.4	65.7	64.0	61.3	60.0	60.9	59.10	
PADD 1 .....	67.1	62.9	59.7	60.6	62.1	62.0	60.1	57.8	56.4	58.2	57.90	
PADD 2 .....	64.5	63.5	62.7	64.7	68.0	66.8	65.6	61.6	60.3	60.9	57.20	
PADD 3 .....	67.0	63.6	60.7	60.6	61.7	61.1	59.6	57.1	55.7	57.3	56.60	
PADD 5 .....	80.9	71.5	65.0	68.3	75.2	73.5	70.7	69.9	68.7	68.3	68.20	
<b>Sales for Resale</b>												
<b>Regular</b>												
U.S. ....	55.3	53.2	50.5	53.1	55.8	53.4	51.9	48.2	48.6	49.8	45.80	
PADD 1 .....	55.9	53.1	50.4	52.6	54.1	51.8	49.9	46.7	47.4	49.3	45.50	
PADD 2 .....	51.9	52.5	50.8	53.8	56.9	54.7	53.1	47.8	48.3	48.9	43.50	
PADD 3 .....	51.7	49.7	47.5	48.9	50.6	48.3	47.0	42.5	43.0	45.5	41.10	
PADD 5 .....	66.0	59.2	54.2	59.1	64.4	60.8	58.8	57.7	57.1	56.6	56.10	
<b>No. 2 Distillate Fuel Oil</b>												
<b>Sales to End Users, Residential</b>												
U.S. ....	92.5	91.5	89.6	87.6	84.8	81.1	77.6	75.5	77.0	78.6	NA	
PADD 1 .....	93.6	92.7	90.8	88.5	85.8	82.1	78.3	76.1	77.6	79.1	NA	
PADD 2 .....	82.5	80.6	79.4	79.0	76.3	74.2	72.7	70.8	72.5	73.8	73.80	
PADD 3 .....	66.2	64.7	62.3	63.0	61.2	W	W	55.1	59.8	57.9	NA	
PADD 5 .....	98.9	95.0	92.8	92.7	90.9	86.3	82.7	84.1	86.5	88.7	89.20	
<b>Sales to End Users Through Retail Outlets<sup>b</sup></b>												
U.S. ....	66.3	63.5	61.6	61.6	61.9	59.1	57.9	56.2	58.1	58.8	57.60	
PADD 1 .....	67.5	64.8	62.7	62.3	62.0	60.0	57.6	55.8	57.4	58.7	57.10	
PADD 2 .....	64.5	62.4	61.1	60.8	60.5	57.7	56.9	54.8	57.5	58.1	56.30	
PADD 3 .....	62.5	60.3	57.8	57.7	58.5	55.7	54.6	52.5	53.9	54.6	54.40	
PADD 5 .....	76.4	70.8	66.4	69.0	70.3	66.5	66.8	67.4	68.4	67.7	66.40	
<b>Sales for Resale</b>												
U.S. ....	51.0	49.6	47.1	48.5	47.3	44.1	42.7	41.3	45.5	45.3	42.00	
PADD 1 .....	51.8	49.9	47.3	47.4	45.8	42.6	41.1	39.2	43.9	43.7	41.10	
PADD 2 .....	48.7	49.3	47.3	49.1	47.9	44.4	43.5	41.9	46.6	46.2	43.10	
PADD 3 .....	49.6	47.7	45.2	45.8	44.5	42.6	40.1	37.8	42.1	42.6	38.90	
PADD 5 .....	54.5	50.9	47.6	53.0	52.1	47.3	47.6	48.9	50.3	49.6	49.80	
<b>Kerosene-Type Jet Fuel</b>												
<b>Sales to End Users</b>												
U.S. ....	52.3	49.9	45.3	46.6	46.7	42.8	43.4	43.6	44.9	46.9	44.40	
PADD 1 .....	51.4	49.9	45.6	46.1	45.9	43.1	43.6	41.6	43.9	46.4	43.50	
PADD 2 .....	52.5	51.3	46.2	47.5	47.3	44.3	44.5	42.5	44.9	47.4	44.70	
PADD 3 .....	49.2	48.1	43.3	44.2	44.1	41.2	41.7	40.1	42.3	44.4	41.80	
PADD 5 .....	54.3	49.5	45.0	47.7	48.3	42.1	43.3	47.5	46.5	48.2	46.00	
<b>Sales for Resale</b>												
U.S. ....	53.4	50.2	45.7	46.6	46.9	43.5	43.8	42.9	44.6	45.9	43.90	
PADD 1 .....	52.8	51.1	46.9	47.4	47.2	44.5	44.8	43.2	44.8	47.4	45.50	
PADD 2 .....	53.1	51.6	47.5	48.7	48.6	46.7	46.1	43.4	46.5	48.4	45.80	
PADD 3 .....	49.9	48.2	43.5	43.6	43.9	41.2	41.1	39.1	41.5	43.2	40.90	
PADD 5 .....	56.8	50.7	46.8	48.5	48.6	43.8	45.9	48.1	47.4	49.1	47.00	
<b>Residual Fuel Oil</b>												
<b>Sales to End Users</b>												
U.S. ....	36.4	33.7	29.8	32.5	32.5	31.7	31.5	29.1	27.7	29.7	28.90	
<b>Sales for Resale</b>												
U.S. ....	32.5	29.5	27.2	30.6	29.6	28.1	29.7	27.0	27.9	28.5	27.00	

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Data are initial estimates calculated using prior history of the series as well as present and past values of other related time series, such as spot prices and heating degree days. For an explanation of estimation methodology, see the Explanatory Notes.

<sup>b</sup> Includes on-highway diesel fuel only.

Notes: Data are final upon publication in the *Petroleum Marketing Annual*.  
Sources: Energy Information Administration Forms EIA-14, "Refiners' Monthly Cost Report," EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."



# Summary Statistics

**Table 1. Crude Oil Prices**  
(Dollars per Barrel)

Year Month	Domestic First Purchase Prices	Average F.O.B. <sup>a</sup> Cost of Crude Oil Imports <sup>b</sup>	Average Landed Cost of Crude Oil Imports <sup>b</sup>	Refiner Acquisition Cost of Crude Oil		
				Domestic	Imported	Composite
1978 .....	9.00	13.29	14.35	10.61	14.57	12.46
1979 .....	12.64	20.07	21.45	14.27	21.67	17.72
1980 .....	21.59	32.37	33.67	24.23	33.89	28.07
1981 .....	31.77	35.15	36.47	34.33	37.05	35.24
1982 .....	28.52	32.02	33.18	31.22	33.55	31.87
1983 .....	26.19	27.81	28.93	28.87	29.30	28.99
1984 .....	25.88	27.60	28.54	28.53	28.88	28.63
1985 .....	24.09	25.84	26.67	26.66	26.99	26.75
1986 .....	12.51	12.52	13.49	14.82	14.00	14.55
1987 .....	15.40	16.69	17.65	17.76	18.13	17.90
1988 .....	12.58	13.25	14.08	14.74	14.56	14.67
1989 .....	15.86	16.89	17.68	17.87	18.08	17.97
1990 .....	20.03	20.37	21.13	22.59	21.76	22.22
1991 .....	16.54	16.89	18.02	19.33	18.70	19.06
1992 .....	15.99	16.77	17.75	18.63	18.20	18.43
1993 .....	14.25	14.71	15.72	16.67	16.14	16.41
1994 .....	13.19	14.18	15.18	15.67	15.51	15.59
1995 .....	14.62	15.69	16.78	17.33	17.14	17.23
1996 .....	18.46	19.32	20.31	20.77	20.64	20.71
January .....	15.43	16.17	17.31	17.98	17.48	17.74
February .....	15.54	16.86	17.81	18.10	17.77	17.95
March .....	17.63	18.77	19.61	19.63	19.90	19.76
April .....	19.58	19.56	20.73	21.88	21.33	21.63
May .....	17.94	18.34	19.61	21.15	20.12	20.61
June .....	16.94	17.61	18.83	19.30	19.32	19.31
July .....	17.63	18.21	19.35	19.91	19.60	19.76
August .....	18.29	19.27	20.30	20.55	20.53	20.54
September .....	19.93	21.03	21.95	21.87	22.04	21.96
October .....	21.09	22.23	23.05	22.93	23.22	23.08
November .....	20.20	21.31	22.24	23.08	22.66	22.87
December .....	21.34	21.56	22.48	23.38	23.22	23.30
1996 .....	18.46	19.32	20.31	20.77	20.64	20.71
1997 .....	17.23	16.94	18.11	19.61	18.53	19.04
January .....	21.76	21.19	22.21	24.25	23.02	23.59
February .....	19.38	18.99	19.98	22.49	20.88	21.64
March .....	17.83	17.11	18.45	20.57	19.16	19.82
April .....	16.63	16.20	17.52	19.02	17.83	18.35
May .....	17.23	16.81	17.87	19.08	18.55	18.79
June .....	15.88	15.99	17.12	18.31	17.35	17.80
July .....	15.89	16.37	17.27	18.25	17.49	17.84
August .....	16.19	16.68	17.78	18.47	17.96	18.19
September .....	16.41	16.76	17.85	18.48	17.85	18.14
October .....	17.66	17.26	18.51	19.68	18.73	19.17
November .....	16.83	16.12	17.35	19.23	17.88	18.52
December .....	15.04	14.21	15.70	17.92	15.95	16.91
1997 .....	17.23	16.94	18.11	19.61	18.53	19.04
1998 .....	13.48	12.76	14.12	15.87	14.55	15.14
January .....	12.16	11.72	13.11	14.77	13.41	14.03
February .....	11.53	11.08	12.39	13.52	12.36	12.87
March .....	11.64	11.18	12.34	13.47	12.85	13.10
April .....	11.49	11.28	12.24	13.52	12.66	13.01
May .....	10.00	10.17	11.27	12.43	11.67	11.98
June .....	10.46	10.37	11.41	12.39	11.56	11.92
July .....	10.18	10.20	11.29	12.45	11.34	11.79
August .....	11.28	11.73	12.58	13.40	12.78	13.04
September .....	11.36	10.98	12.12	13.42	12.18	12.68
October .....	NA	NA	NA	E 12.22	E 11.56	E 11.89
November <sup>c</sup> .....	NA	NA	NA	E 12.22	E 11.56	E 11.89

E = Estimated data.

<sup>a</sup> Free on Board. See Glossary.

<sup>b</sup> Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

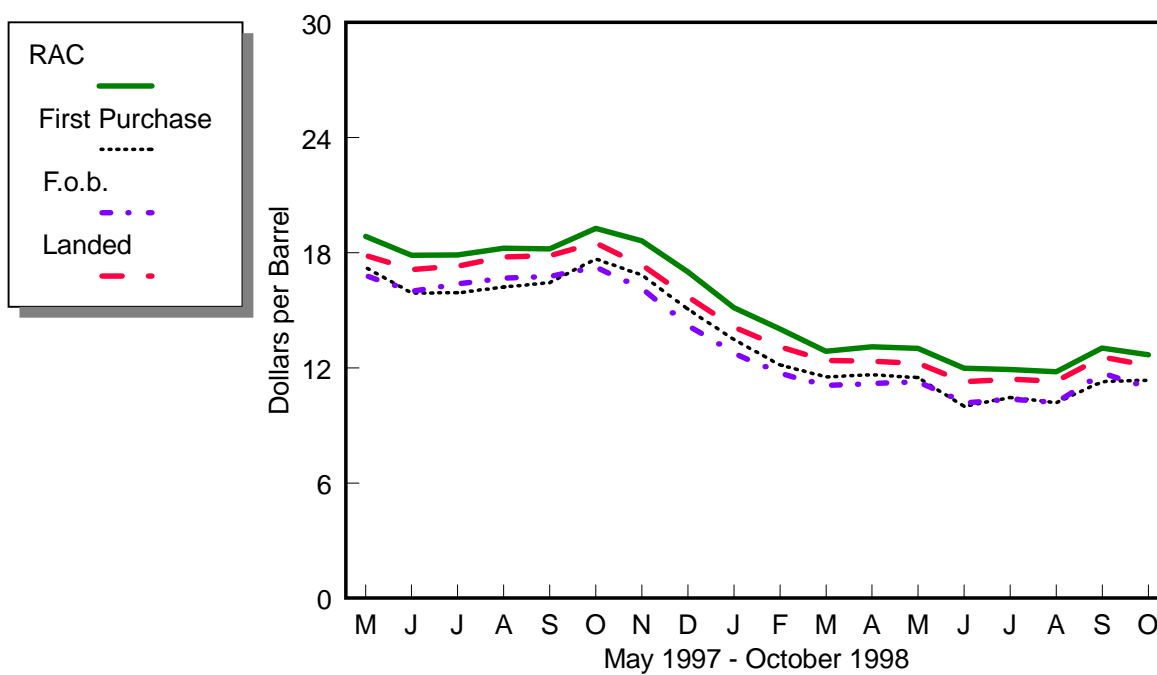
NA = Not available.

<sup>c</sup> Data are initial estimates calculated using prior history of the series as well as present and past values of other related time series, such as spot prices and heating degree days. For an explanation of estimation methodology, see the Explanatory Notes.

Notes: Values for Domestic First Purchase and Refiner Acquisition for the current 2 months, and for Average F.O.B. and Average Landed for current 3 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Domestic first purchase prices -- See "Sources" from Table 21. Crude oil imports costs -- See "Sources" from Table 24. Refiner acquisition costs -- Energy Information Administration, Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," January 1978 through June 1978; Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners' Monthly Report," July 1978 through December 1980; Form EIA-14, "Refiners' Monthly Cost Report," January 1981 to present.

Figure 1. Crude Oil Prices



Sources: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report"; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report"; and Form EIA-14, "Refiners' Monthly Cost Report."

**Table 2. U.S. Refiner Prices of Petroleum Products to End Users**  
(Cents per Gallon Excluding Taxes)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Average		
1978 .....	48.4	51.6	38.7	33.5	42.1	41.0	37.7	40.0	39.6	31.1	29.8
1979 .....	71.3	68.9	54.7	35.7	58.5	57.2	58.5	51.6	55.1	47.9	43.6
1980 .....	103.5	108.4	86.8	48.2	90.2	83.4	81.8	78.8	80.4	68.2	60.7
1981 .....	114.7	130.3	102.4	56.5	112.3	103.9	99.5	91.4	95.8	79.7	75.6
1982 .....	106.0	131.2	96.3	59.2	108.9	102.3	94.2	90.5	92.5	75.0	67.6
1983 .....	95.4	125.5	87.8	70.9	96.1	96.2	82.6	91.6	83.9	76.6	65.1
1984 .....	90.7	123.4	84.2	73.7	103.6	92.7	82.3	91.6	83.7	79.6	68.7
1985 .....	91.2	120.1	79.6	71.7	103.0	88.0	78.9	84.9	79.9	77.3	61.0
1986 .....	62.4	101.1	52.9	74.5	79.0	62.0	47.8	56.0	49.1	48.9	34.3
1987 .....	66.9	90.7	54.3	70.1	77.0	60.4	55.1	58.1	55.6	51.3	42.3
1988 .....	67.3	89.1	51.3	71.4	73.8	56.4	50.0	54.4	50.7	46.1	33.4
1989 .....	75.6	99.5	59.2	61.5	70.9	66.1	58.5	58.7	58.5	51.2	38.5
1990 .....	88.3	112.0	76.6	74.5	92.3	81.9	72.5	73.4	72.6	62.2	44.4
1991 .....	79.7	104.7	65.2	73.0	83.8	74.0	64.8	66.5	65.0	58.0	34.0
1992 .....	78.7	102.7	61.0	64.3	78.8	66.6	61.9	62.7	62.0	52.6	33.6
1993 .....	75.9	99.0	58.0	67.3	75.4	66.6	60.2	60.2	60.2	50.1	33.7
1994 .....	73.8	95.7	53.4	53.0	66.0	64.0	55.4	57.2	55.6	50.1	35.2
1995 .....	76.5	100.5	54.0	49.2	58.9	62.0	56.0	56.2	56.0	50.5	39.2
1996 .....											
January .....	74.8	101.2	61.3	63.7	71.8	65.1	59.0	63.5	59.8	60.4	47.9
February .....	74.9	100.6	56.9	64.2	73.4	66.6	60.0	64.1	60.8	58.5	44.9
March .....	79.8	105.0	59.0	63.0	69.0	71.0	64.4	66.8	64.7	61.8	44.7
April .....	88.1	111.4	66.0	57.0	80.5	75.9	71.9	69.9	71.6	65.1	45.1
May .....	92.7	114.4	63.3	49.5	68.4	73.7	69.8	64.9	69.3	63.2	43.3
June .....	90.3	113.5	57.7	48.5	58.5	64.4	62.2	57.5	61.7	53.8	40.8
July .....	87.5	113.7	60.3	50.8	64.6	65.1	62.3	59.4	62.0	50.8	41.0
August .....	84.9	114.4	65.1	48.6	69.5	71.0	66.4	66.1	66.4	52.5	42.0
September .....	84.4	114.3	71.8	51.4	76.4	77.5	72.9	72.1	72.8	58.5	44.9
October .....	84.4	115.0	73.6	57.7	87.1	82.3	76.9	75.1	76.7	62.1	48.5
November .....	86.8	115.1	71.7	71.1	88.7	79.2	75.7	75.0	75.6	63.7	49.7
December .....	86.0	115.3	74.0	87.5	90.7	77.7	74.4	75.1	74.5	65.9	49.9
1996 .....	84.7	111.6	65.1	60.5	74.0	72.6	68.1	67.3	68.0	60.3	45.5
1997 .....											
January .....	86.6	113.7	74.4	86.1	88.7	77.3	73.0	75.1	73.3	65.8	49.5
February .....	85.9	114.9	71.7	66.8	84.8	76.0	71.1	72.5	71.3	59.6	45.2
March .....	84.0	113.8	61.9	57.3	NA	68.8	65.8	66.4	65.8	54.6	40.3
April .....	83.9	114.7	60.2	49.7	69.8	66.3	64.8	63.8	64.7	55.9	39.7
May .....	84.5	115.7	58.9	46.5	68.5	64.2	63.8	62.9	63.7	53.4	40.3
June .....	83.3	114.6	57.6	46.1	64.5	62.8	60.8	59.2	60.6	52.8	40.1
July .....	81.5	NA	56.7	47.5	63.1	58.6	59.4	57.3	59.1	50.3	39.6
August .....	86.8	114.6	59.1	50.5	64.9	61.8	61.8	59.0	61.5	51.6	40.7
September .....	87.2	115.6	58.2	48.4	63.4	61.1	60.7	58.4	60.4	51.1	41.3
October .....	84.3	113.9	61.5	52.3	72.9	66.8	64.5	63.2	64.3	55.5	43.9
November .....	81.6	113.0	61.2	52.2	77.9	70.1	65.2	64.2	65.0	58.2	45.7
December .....	77.8	107.7	56.3	51.8	75.1	63.8	60.1	59.7	60.1	56.1	40.2
1997 .....	83.9	112.8	61.3	55.2	74.5	68.9	64.2	63.6	64.2	56.5	42.3
1998 .....											
January .....	73.3	104.3	52.3	48.4	72.3	58.5	54.9	54.1	54.8	50.9	35.3
February .....	69.0	101.1	49.9	44.7	68.2	57.7	53.3	53.8	53.3	48.7	32.7
March .....	65.6	98.2	45.3	43.8	65.3	56.0	50.8	53.9	51.1	46.0	28.6
April .....	67.4	98.6	46.6	41.5	56.7	56.3	52.2	53.0	52.3	43.8	31.7
May .....	71.0	99.9	46.7	36.2	56.0	53.0	51.9	48.5	51.4	43.6	31.8
June .....	70.4	99.0	42.8	34.1	46.1	NA	48.7	45.8	48.3	40.8	31.3
July .....	69.4	98.4	43.4	35.8	47.4	NA	47.6	44.8	47.3	38.4	31.4
August .....	66.7	95.9	43.6	33.5	41.5	NA	46.3	43.1	45.8	36.2	28.7
September .....	65.4	94.1	44.9	37.4	46.2	NA	49.5	47.2	49.2	39.9	27.6
October .....	66.4	95.1	46.9	40.7	50.6	57.9	50.0	47.8	49.7	43.1	29.5

NA = Not available.

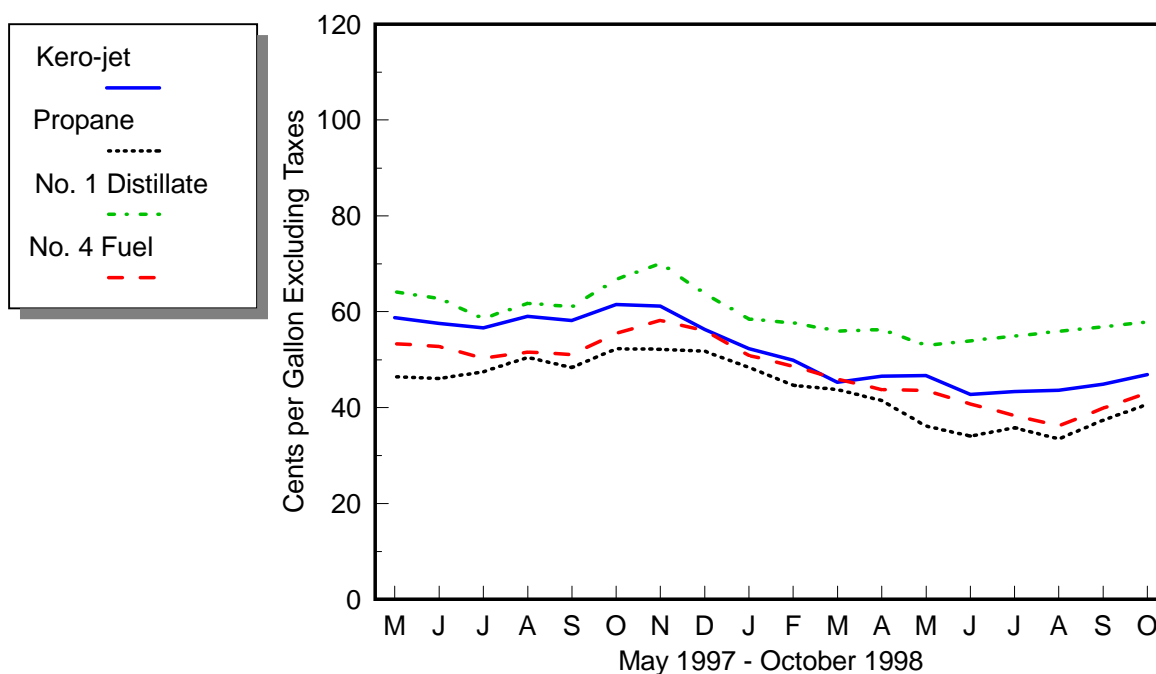
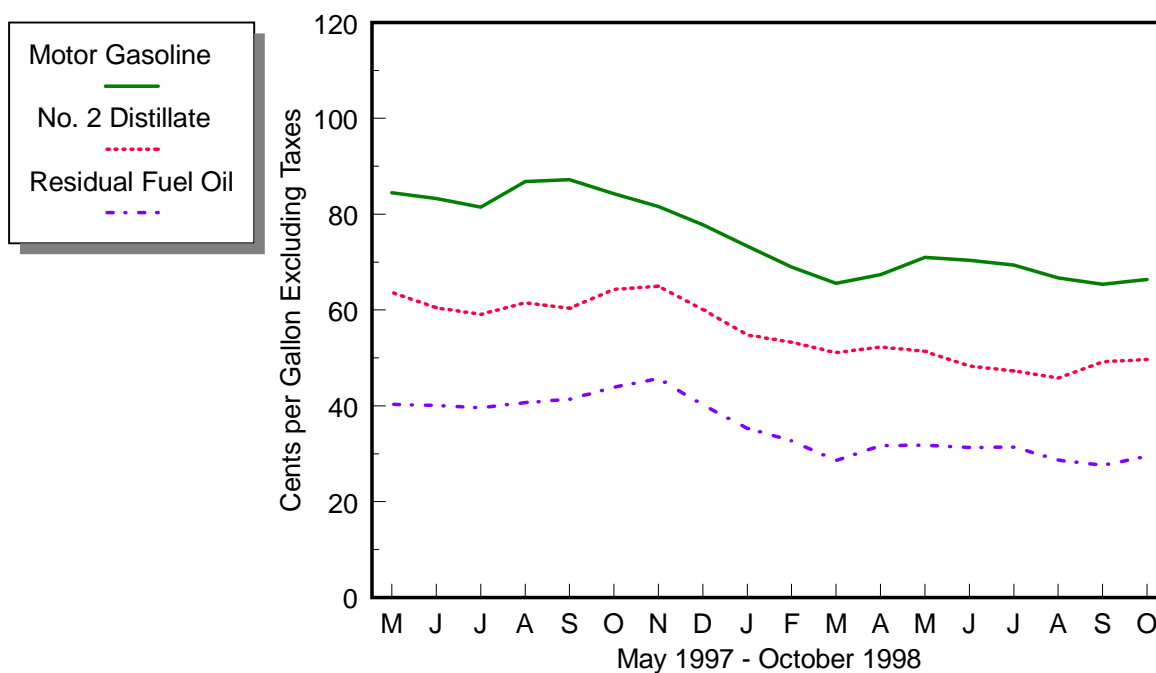
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 2. U.S. Refiner Retail Petroleum Product Prices



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 3. U.S. Refiner Volumes of Petroleum Products to End Users**

(Million Gallons per Day)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Total		
<b>1983</b> .....	51.1	0.4	30.8	3.1	0.2	0.5	23.3	3.7	27.0	0.7	28.3
<b>1984</b> .....	57.6	0.3	32.9	3.3	0.3	0.5	26.3	4.9	31.2	0.7	32.9
<b>1985</b> .....	57.5	0.3	34.6	3.7	0.3	0.5	25.0	5.0	29.9	0.5	25.2
<b>1986</b> .....	61.2	0.3	35.1	3.4	0.3	0.4	24.4	4.4	28.8	0.7	31.6
<b>1987</b> .....	61.0	0.2	36.8	3.8	0.3	0.4	24.1	4.5	28.5	0.8	29.0
<b>1988</b> .....	61.0	0.2	38.2	4.3	0.3	0.4	24.5	4.6	29.1	1.1	30.2
<b>1989</b> .....	61.2	0.2	40.1	2.8	0.3	0.5	24.3	4.5	28.8	0.9	30.4
<b>1990</b> .....	60.3	0.2	39.9	2.7	0.2	0.5	22.2	3.6	25.9	0.8	25.9
<b>1991</b> .....	61.2	0.2	38.5	3.1	0.2	0.5	21.1	3.2	24.4	0.7	24.0
<b>1992</b> .....	59.0	0.2	39.8	3.8	0.2	0.5	21.5	3.1	24.6	0.6	22.4
<b>1993</b> .....	57.2	0.2	41.7	3.5	0.2	0.4	20.8	2.9	23.8	0.6	17.2
<b>1994</b> .....	55.0	0.2	45.2	2.2	0.4	0.4	21.3	3.4	24.6	0.8	13.5
<b>1995</b> .....	55.9	0.2	45.7	3.2	0.6	0.3	21.6	3.3	24.9	0.5	11.6
<b>1996</b> .....											
January .....	53.0	0.1	46.5	3.3	0.8	0.6	20.2	4.4	24.5	0.9	14.4
February .....	54.6	0.2	46.8	4.0	0.7	0.6	21.8	4.7	26.5	0.9	15.0
March .....	56.4	0.2	47.8	2.9	0.7	0.3	21.2	3.3	24.6	0.5	12.7
April .....	57.2	0.2	48.1	2.7	0.3	0.2	22.6	3.1	25.7	0.4	11.8
May .....	57.8	0.2	49.0	2.6	0.3	0.1	22.9	2.8	25.7	0.3	10.7
June .....	59.2	0.2	50.1	2.2	0.4	0.2	22.0	2.7	24.7	0.3	11.3
July .....	58.9	0.2	50.3	2.1	0.2	0.1	21.7	2.4	24.1	0.3	11.7
August .....	59.7	0.2	50.3	2.3	0.2	0.2	22.1	2.6	24.7	0.2	12.3
September .....	57.8	0.2	50.6	4.1	0.3	0.2	21.4	2.6	24.0	0.2	10.9
October .....	58.5	0.2	48.0	3.9	0.3	0.3	23.1	2.7	25.8	0.3	13.5
November .....	58.1	0.1	48.1	3.3	0.3	0.5	22.8	3.1	25.9	0.4	14.3
December .....	59.2	0.1	49.3	3.4	0.3	0.8	21.2	3.0	24.2	0.5	15.7
<b>1996</b> .....	<b>57.5</b>	<b>0.2</b>	<b>48.7</b>	<b>3.1</b>	<b>0.4</b>	<b>0.3</b>	<b>21.9</b>	<b>3.1</b>	<b>25.0</b>	<b>0.4</b>	<b>12.9</b>
<b>1997</b> .....											
January .....	54.4	0.1	46.0	3.2	0.5	0.8	22.0	3.8	25.9	0.6	13.8
February .....	57.3	0.1	47.8	3.7	0.4	0.6	22.3	2.8	25.1	0.4	14.1
March .....	58.4	0.2	48.2	3.3	NA	0.3	22.2	2.6	24.8	0.3	13.6
April .....	58.9	0.2	49.1	3.4	0.3	0.2	23.6	2.9	26.5	0.2	11.5
May .....	57.8	0.2	49.8	2.9	0.2	0.2	22.6	2.7	25.2	0.2	10.7
June .....	59.8	0.2	52.0	2.3	0.2	0.2	21.6	2.5	24.1	0.2	12.3
July .....	65.3	NA	51.7	2.1	0.1	0.2	21.6	3.0	24.6	0.3	13.5
August .....	64.8	0.2	52.0	2.3	0.2	0.2	20.9	3.0	23.9	0.2	12.1
September .....	63.7	0.2	51.3	3.1	0.3	0.2	23.1	2.9	26.0	0.2	12.6
October .....	64.4	0.2	49.8	3.5	0.2	0.3	23.1	3.1	26.2	0.3	15.1
November .....	62.3	0.1	48.9	3.8	0.3	0.4	20.5	3.1	23.7	0.4	14.4
December .....	66.0	0.1	49.7	4.4	0.3	0.6	20.9	3.5	24.4	0.4	17.5
<b>1997</b> .....	<b>61.1</b>	<b>0.2</b>	<b>49.7</b>	<b>3.2</b>	<b>0.3</b>	<b>0.4</b>	<b>22.0</b>	<b>3.0</b>	<b>25.0</b>	<b>0.3</b>	<b>13.4</b>
<b>1998</b> .....											
January .....	59.9	0.1	47.2	4.6	0.3	0.7	20.4	3.4	23.8	0.4	15.5
February .....	62.3	0.1	47.9	4.9	0.3	0.6	21.1	3.0	24.1	0.4	13.5
March .....	64.3	0.1	47.6	4.1	0.3	0.4	22.3	2.6	24.9	0.4	15.5
April .....	64.7	0.2	48.6	3.0	0.2	0.3	21.3	2.4	23.6	0.3	14.4
May .....	65.6	0.2	49.4	2.3	0.1	0.3	20.5	3.2	23.7	0.3	13.2
June .....	66.8	0.2	51.3	2.2	0.3	NA	22.6	3.8	26.5	0.3	13.8
July .....	67.3	0.2	51.7	1.9	0.3	NA	22.8	3.1	25.9	0.4	16.0
August .....	66.9	0.2	51.5	2.4	0.6	NA	21.2	3.7	25.0	0.4	17.8
September .....	65.2	0.2	48.0	2.3	0.4	NA	22.4	3.3	25.7	0.3	13.0
October .....	65.1	0.2	50.4	2.7	0.3	0.4	22.1	3.4	25.4	0.2	14.9

NA = Not available.

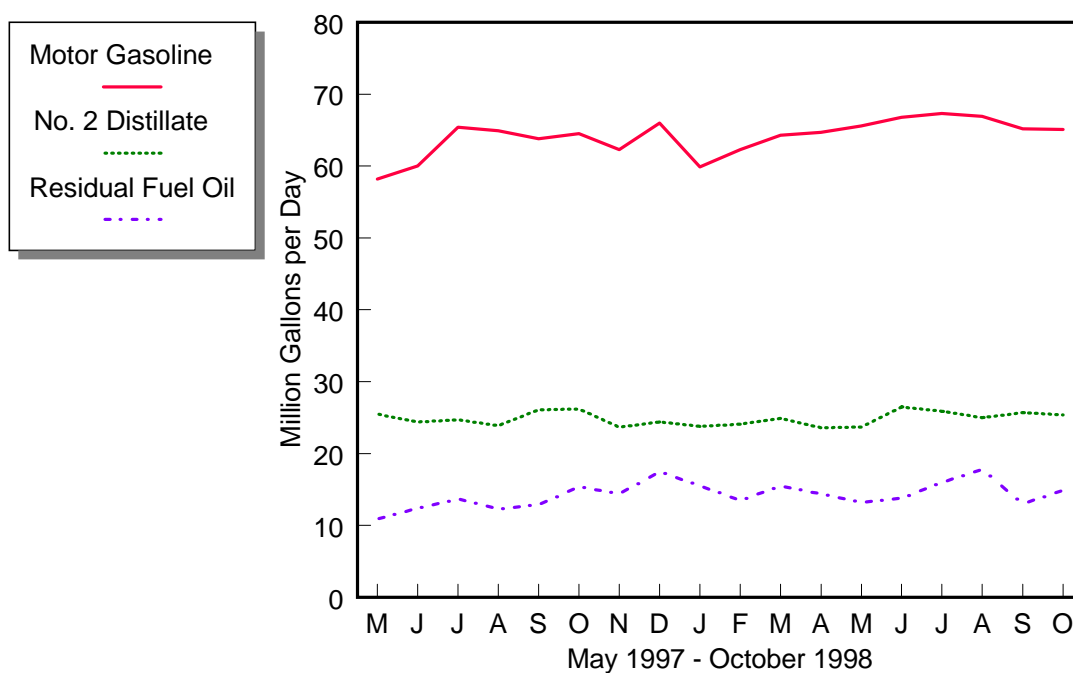
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

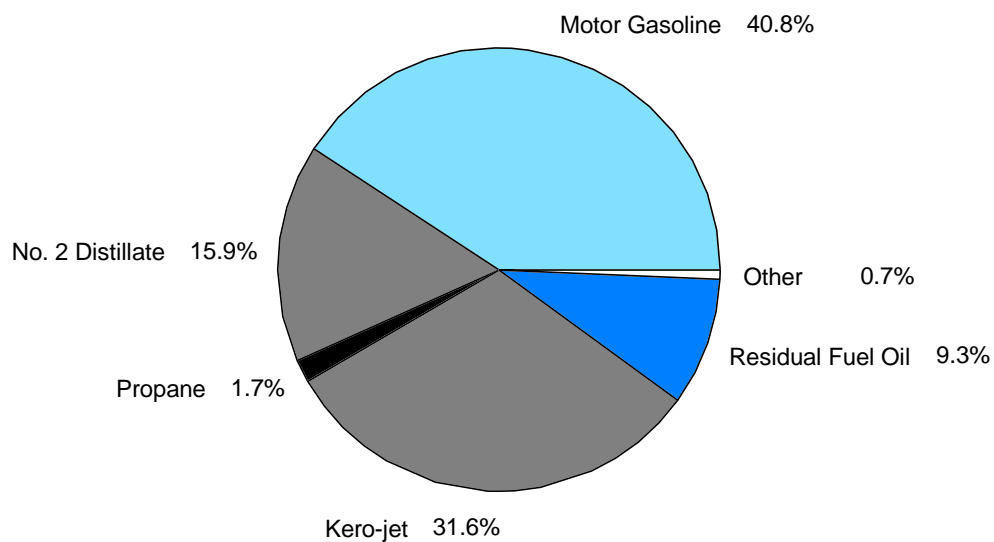
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Figure 3. U.S. Refiner Retail Petroleum Product Volumes



Percentages of Refiner Retail Volumes



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 4. U.S. Refiner Prices of Petroleum Products for Resale**

(Cents per Gallon Excluding Taxes)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Average		
1978 .....	43.4	53.7	38.6	23.7	40.4	40.6	36.5	36.9	36.7	30.5	26.3
1979 .....	63.7	72.1	66.0	29.1	62.4	58.3	57.4	56.9	57.1	47.0	39.9
1980 .....	94.1	112.8	86.8	41.5	86.4	88.0	80.1	80.3	80.2	67.0	52.8
1981 .....	106.4	125.0	101.2	46.6	106.6	107.1	97.2	97.6	97.4	78.3	66.3
1982 .....	97.3	122.8	95.3	42.7	101.8	103.8	91.4	91.4	91.4	73.7	61.2
1983 .....	88.2	117.8	85.4	48.4	89.2	89.6	80.8	81.5	81.2	72.6	60.9
1984 .....	83.2	116.5	83.0	45.0	91.6	89.2	80.3	82.1	81.3	70.7	65.4
1985 .....	83.5	113.0	79.4	39.8	87.4	86.3	77.2	77.6	77.4	67.2	57.7
1986 .....	53.1	91.2	49.5	29.0	60.6	57.9	45.2	48.6	47.0	40.9	30.5
1987 .....	58.9	85.9	53.8	25.2	59.2	59.9	53.4	52.7	53.1	46.2	38.5
1988 .....	57.7	85.0	49.5	24.0	54.9	54.9	47.3	47.3	47.3	42.5	30.0
1989 .....	65.4	95.0	58.3	24.7	66.9	66.8	56.7	56.5	56.6	48.0	36.0
1990 .....	78.6	106.3	77.3	38.6	83.9	83.8	69.4	69.7	69.5	59.0	41.3
1991 .....	69.9	100.1	65.0	34.9	72.3	73.0	61.5	62.2	61.8	55.6	31.4
1992 .....	67.7	99.1	60.5	32.8	63.2	65.2	59.1	57.9	58.5	49.5	30.8
1993 .....	62.6	96.5	57.7	35.1	60.4	64.6	57.0	54.4	55.9	48.8	29.3
1994 .....	59.9	93.3	53.4	32.4	61.8	61.5	52.9	50.6	52.2	46.2	31.7
1995 .....	62.6	97.5	53.9	34.4	58.0	62.5	53.8	51.1	53.0	46.3	36.3
<b>1996</b>											
January .....	61.0	94.7	60.3	41.6	65.8	65.0	56.2	56.8	56.4	60.3	45.2
February .....	61.6	96.5	57.3	44.2	65.7	66.6	57.9	58.9	58.2	58.2	40.1
March .....	67.9	100.6	59.6	41.1	68.0	70.5	61.9	62.8	62.2	59.1	42.0
April .....	76.1	107.5	65.3	37.8	75.1	78.2	70.1	67.5	69.4	61.6	43.7
May .....	78.0	110.0	62.2	36.2	66.1	79.2	66.8	61.1	65.5	57.8	41.0
June .....	73.0	107.0	57.5	36.2	59.8	69.3	59.1	53.7	57.8	54.3	37.4
July .....	72.3	105.3	59.6	36.9	61.7	69.8	60.0	57.1	59.4	51.8	38.9
August .....	71.1	107.1	64.5	38.9	66.6	76.7	64.9	62.1	64.3	54.7	39.0
September .....	71.6	106.8	71.6	45.2	75.6	83.3	71.7	68.7	71.0	57.2	41.2
October .....	72.8	107.1	73.6	51.1	80.7	85.7	75.4	72.7	74.7	63.9	45.0
November .....	74.5	108.4	72.2	57.9	79.7	84.0	73.3	71.4	72.7	65.7	46.3
December .....	73.1	107.1	73.0	67.7	79.0	80.0	71.0	71.2	71.1	65.7	46.0
<b>1996</b> .....	<b>71.3</b>	<b>105.5</b>	<b>64.6</b>	<b>46.1</b>	<b>71.4</b>	<b>75.1</b>	<b>65.9</b>	<b>63.9</b>	<b>65.3</b>	<b>60.3</b>	<b>42.0</b>
<b>1997</b>											
January .....	75.0	109.0	73.8	60.2	77.7	78.9	69.8	69.8	69.8	63.7	42.9
February .....	73.0	108.7	71.5	44.7	73.9	77.2	67.8	64.5	66.6	58.8	39.3
March .....	71.4	107.9	61.8	41.3	63.5	73.1	62.4	57.7	61.0	53.7	35.8
April .....	70.4	108.5	60.6	37.7	62.1	70.6	61.7	58.6	61.0	49.7	36.1
May .....	71.3	108.2	59.4	36.9	60.4	69.8	60.7	58.8	60.2	52.9	35.8
June .....	68.4	105.9	58.1	36.4	57.4	66.7	56.6	54.5	56.1	47.0	36.7
July .....	67.5	104.7	56.9	35.9	56.8	63.8	55.8	53.8	55.4	46.0	36.5
August .....	75.0	109.0	59.1	37.5	60.6	67.6	58.9	55.3	58.1	52.6	38.3
September .....	72.3	109.0	58.9	39.5	60.2	67.4	57.8	54.3	57.0	54.1	38.7
October .....	68.5	104.7	61.1	41.1	63.8	72.1	61.7	59.0	61.2	56.8	42.0
November .....	65.9	102.0	61.3	39.6	62.6	71.0	61.5	58.4	60.7	57.3	43.5
December .....	61.7	99.1	55.6	37.5	57.8	64.1	55.0	53.4	54.6	49.0	35.6
<b>1997</b> .....	<b>70.0</b>	<b>106.5</b>	<b>61.3</b>	<b>41.6</b>	<b>65.3</b>	<b>72.3</b>	<b>60.6</b>	<b>59.0</b>	<b>60.2</b>	<b>55.1</b>	<b>38.7</b>
<b>1998</b>											
January .....	57.6	96.2	53.4	35.4	52.8	57.1	49.6	48.9	49.4	45.9	31.1
February .....	55.1	92.0	50.2	33.1	51.6	56.4	48.3	47.7	48.1	43.6	28.2
March .....	52.3	90.4	45.7	31.2	47.6	54.3	45.8	44.9	45.6	37.5	26.4
April .....	54.9	90.9	46.6	30.3	46.3	57.6	48.2	44.9	47.4	41.7	30.3
May .....	57.9	94.0	46.9	29.3	45.8	56.4	47.0	43.4	46.1	40.3	29.4
June .....	55.6	93.7	43.5	26.6	42.9	52.0	43.6	39.9	42.9	36.5	27.9
July .....	54.3	93.6	43.8	25.7	41.7	50.2	42.6	38.8	41.9	37.5	29.6
August .....	50.6	91.7	42.9	25.7	40.7	51.3	41.4	36.9	40.5	36.0	26.5
September .....	50.9	89.8	44.6	26.3	45.9	53.3	45.6	41.8	44.9	36.1	27.9
October .....	52.4	90.7	45.9	27.6	46.3	53.7	45.6	41.2	44.7	35.3	28.3

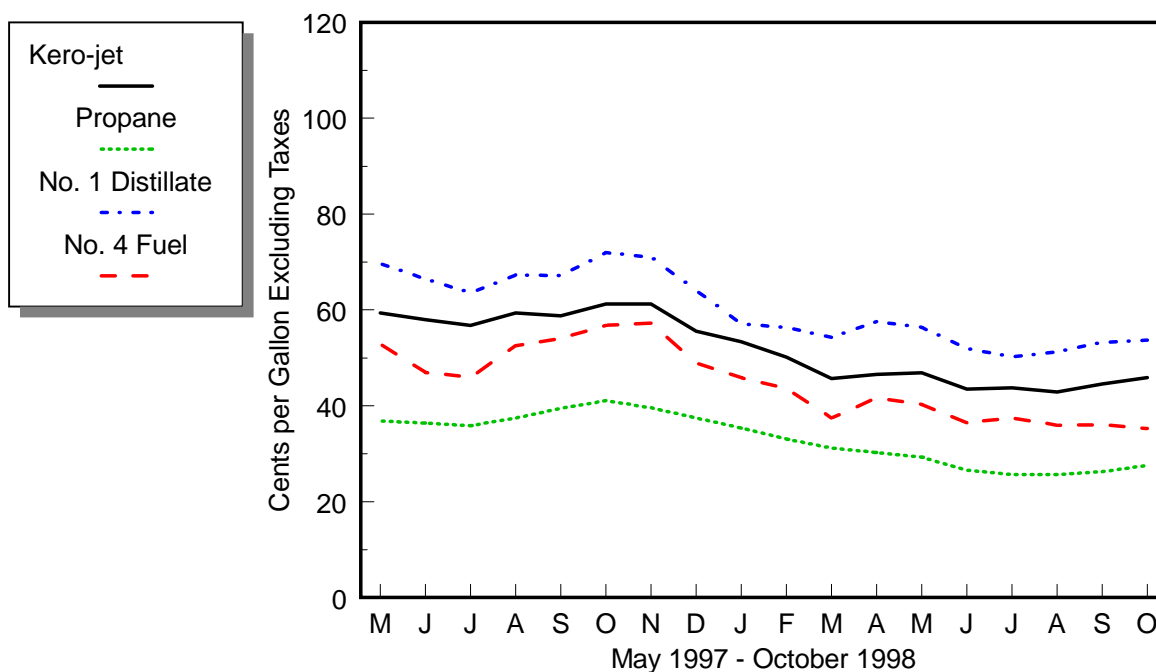
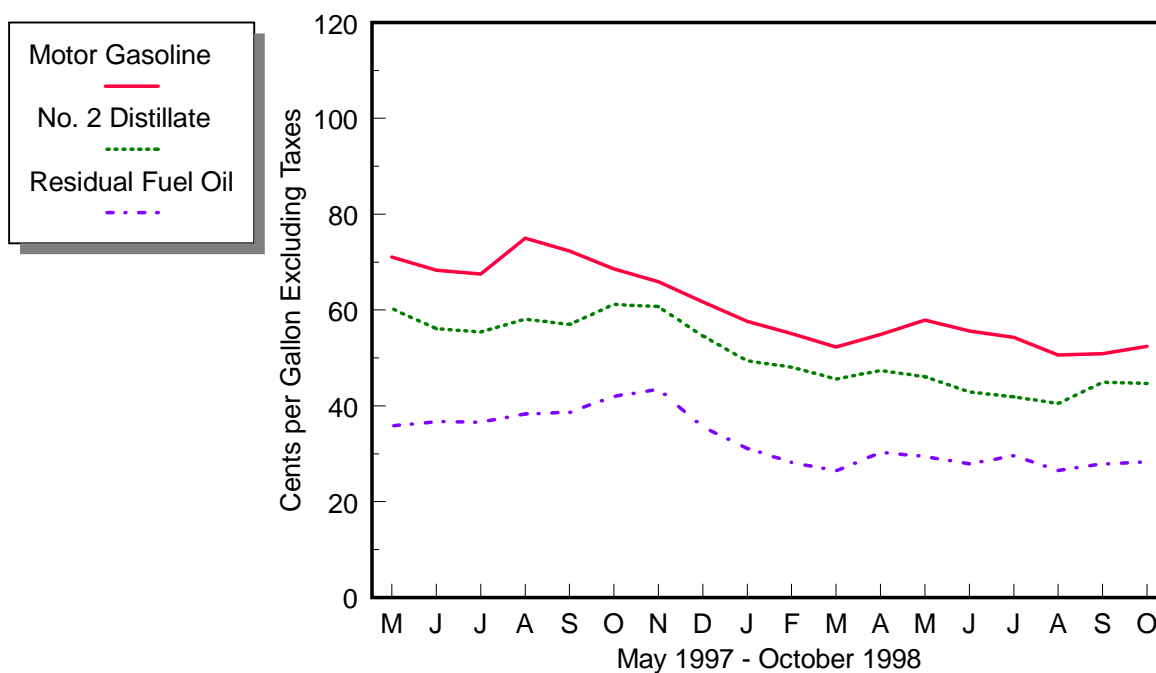
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 4. U.S. Refiner Wholesale Petroleum Product Prices



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 5. U.S. Refiner Volumes of Petroleum Products for Resale**

(Million Gallons per Day)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Total		
<b>1983</b> .....	<b>242.5</b>	<b>0.7</b>	<b>5.4</b>	<b>26.0</b>	<b>2.5</b>	<b>2.4</b>	<b>38.1</b>	<b>47.3</b>	<b>85.5</b>	<b>0.9</b>	<b>20.2</b>
<b>1984</b> .....	<b>246.3</b>	<b>0.8</b>	<b>6.6</b>	<b>26.7</b>	<b>2.2</b>	<b>2.6</b>	<b>42.8</b>	<b>51.4</b>	<b>94.2</b>	<b>1.7</b>	<b>21.3</b>
<b>1985</b> .....	<b>256.9</b>	<b>0.7</b>	<b>7.6</b>	<b>29.2</b>	<b>2.4</b>	<b>2.7</b>	<b>43.3</b>	<b>53.9</b>	<b>97.3</b>	<b>1.2</b>	<b>19.9</b>
<b>1986</b> .....	<b>257.2</b>	<b>0.7</b>	<b>9.2</b>	<b>26.3</b>	<b>2.4</b>	<b>2.5</b>	<b>46.4</b>	<b>53.8</b>	<b>100.3</b>	<b>1.2</b>	<b>18.6</b>
<b>1987</b> .....	<b>257.2</b>	<b>0.8</b>	<b>10.1</b>	<b>27.0</b>	<b>2.3</b>	<b>2.0</b>	<b>44.3</b>	<b>49.3</b>	<b>93.6</b>	<b>1.5</b>	<b>16.9</b>
<b>1988</b> .....	<b>263.7</b>	<b>0.7</b>	<b>10.0</b>	<b>27.7</b>	<b>2.7</b>	<b>2.6</b>	<b>47.8</b>	<b>50.1</b>	<b>97.9</b>	<b>1.2</b>	<b>18.9</b>
<b>1989</b> .....	<b>260.7</b>	<b>0.7</b>	<b>8.6</b>	<b>25.9</b>	<b>2.7</b>	<b>2.7</b>	<b>50.7</b>	<b>46.7</b>	<b>97.5</b>	<b>1.2</b>	<b>21.0</b>
<b>1990</b> .....	<b>264.8</b>	<b>0.7</b>	<b>8.8</b>	<b>25.5</b>	<b>2.2</b>	<b>2.4</b>	<b>51.9</b>	<b>45.9</b>	<b>97.8</b>	<b>0.8</b>	<b>17.9</b>
<b>1991</b> .....	<b>261.3</b>	<b>0.7</b>	<b>8.7</b>	<b>25.4</b>	<b>2.1</b>	<b>2.4</b>	<b>51.5</b>	<b>46.9</b>	<b>98.3</b>	<b>0.4</b>	<b>17.8</b>
<b>1992</b> .....	<b>265.4</b>	<b>0.7</b>	<b>8.0</b>	<b>26.7</b>	<b>2.2</b>	<b>2.3</b>	<b>50.8</b>	<b>48.9</b>	<b>99.7</b>	<b>0.4</b>	<b>15.2</b>
<b>1993</b> .....	<b>266.9</b>	<b>0.6</b>	<b>8.3</b>	<b>27.9</b>	<b>2.3</b>	<b>2.3</b>	<b>58.0</b>	<b>43.6</b>	<b>101.7</b>	<b>0.4</b>	<b>12.6</b>
<b>1994</b> .....	<b>276.7</b>	<b>0.7</b>	<b>9.1</b>	<b>28.4</b>	<b>2.5</b>	<b>1.9</b>	<b>72.4</b>	<b>32.9</b>	<b>105.3</b>	<b>0.4</b>	<b>12.8</b>
<b>1995</b> .....	<b>288.8</b>	<b>0.6</b>	<b>9.9</b>	<b>30.6</b>	<b>2.4</b>	<b>1.7</b>	<b>75.9</b>	<b>31.0</b>	<b>106.9</b>	<b>0.3</b>	<b>13.6</b>
<b>1996</b>											
January .....	264.5	0.4	12.7	44.2	6.2	4.3	72.7	46.4	119.1	0.5	16.7
February .....	283.4	0.5	13.2	40.8	5.9	3.5	78.3	45.4	123.7	0.5	15.0
March .....	280.3	0.5	11.8	32.1	3.1	1.3	82.4	37.0	119.4	0.5	16.7
April .....	299.7	0.6	12.4	27.3	1.4	0.4	89.1	31.2	120.3	0.3	13.5
May .....	301.4	0.7	11.2	22.2	0.9	0.2	85.6	24.9	110.5	0.2	12.7
June .....	306.8	0.7	10.0	23.1	0.6	0.3	83.8	25.9	109.6	0.1	14.1
July .....	310.4	0.8	11.1	25.0	0.7	0.3	86.6	22.8	109.4	0.2	14.1
August .....	306.9	0.9	11.7	30.2	1.1	0.4	87.4	23.9	111.3	0.1	15.6
September .....	286.4	0.7	10.0	30.4	2.0	0.9	85.2	26.8	112.0	0.2	11.8
October .....	293.7	0.6	11.2	35.3	2.9	1.9	92.2	33.1	125.2	0.2	11.2
November .....	292.6	0.5	10.3	41.0	3.4	3.6	80.7	38.3	119.1	0.3	11.3
December .....	297.0	0.4	12.8	43.2	4.1	4.1	79.8	42.3	122.1	0.5	12.3
<b>1996</b> .....	<b>293.6</b>	<b>0.6</b>	<b>11.5</b>	<b>32.9</b>	<b>2.7</b>	<b>1.8</b>	<b>83.7</b>	<b>33.1</b>	<b>116.8</b>	<b>0.3</b>	<b>13.8</b>
<b>1997</b>											
January .....	272.8	0.4	11.1	44.9	5.4	4.7	80.8	47.7	128.5	0.5	14.1
February .....	285.4	0.5	10.3	38.4	3.6	2.7	78.7	42.3	121.1	0.4	13.9
March .....	287.1	0.5	10.3	28.1	2.1	1.1	84.4	35.7	120.1	0.3	9.4
April .....	293.0	0.6	9.5	25.8	1.3	0.4	91.1	29.9	121.0	0.3	10.5
May .....	293.3	0.7	9.9	24.8	1.0	0.3	88.6	25.7	114.3	0.1	8.2
June .....	293.5	0.8	10.8	24.3	0.8	0.4	91.2	27.4	118.6	0.2	10.4
July .....	307.9	0.9	10.8	26.6	1.3	0.4	92.1	25.3	117.3	0.1	10.9
August .....	304.0	0.8	12.6	28.7	1.2	0.5	87.0	25.0	112.0	0.2	12.1
September .....	290.4	0.7	10.4	32.4	1.9	0.9	94.0	27.0	121.0	0.1	11.6
October .....	299.6	0.6	11.7	34.7	2.7	1.6	100.0	26.1	126.0	0.1	12.4
November .....	286.4	0.5	13.9	35.8	4.0	3.1	85.9	27.7	113.6	0.1	11.8
December .....	298.4	0.5	14.2	42.5	4.9	3.2	90.2	35.5	125.7	0.3	12.9
<b>1997</b> .....	<b>292.7</b>	<b>0.6</b>	<b>11.3</b>	<b>32.2</b>	<b>2.5</b>	<b>1.6</b>	<b>88.7</b>	<b>31.2</b>	<b>119.9</b>	<b>0.2</b>	<b>11.5</b>
<b>1998</b>											
January .....	279.7	0.4	11.4	38.8	4.4	3.1	84.6	34.3	119.0	0.2	14.0
February .....	285.9	0.5	11.4	38.9	3.9	1.7	84.2	35.3	119.4	0.2	10.2
March .....	291.1	0.6	12.6	33.9	2.9	1.1	88.5	32.0	120.5	0.3	12.7
April .....	310.5	0.7	12.7	29.1	1.7	0.3	89.6	27.3	116.9	0.1	17.4
May .....	311.1	0.7	11.0	25.0	1.1	0.2	87.2	28.6	115.8	0.1	14.5
June .....	323.9	0.8	13.2	28.8	1.3	0.3	101.8	23.5	125.3	0.1	18.2
July .....	321.9	0.9	11.6	26.8	1.1	0.3	100.9	22.0	122.8	0.0	19.4
August .....	308.4	0.7	12.4	27.7	0.9	0.4	94.8	20.9	115.8	0.0	16.5
September .....	299.2	0.7	10.8	31.8	1.4	0.9	96.6	21.0	117.5	0.1	17.4
October .....	300.8	0.7	12.6	37.8	2.0	1.4	98.5	25.8	124.2	0.1	17.2

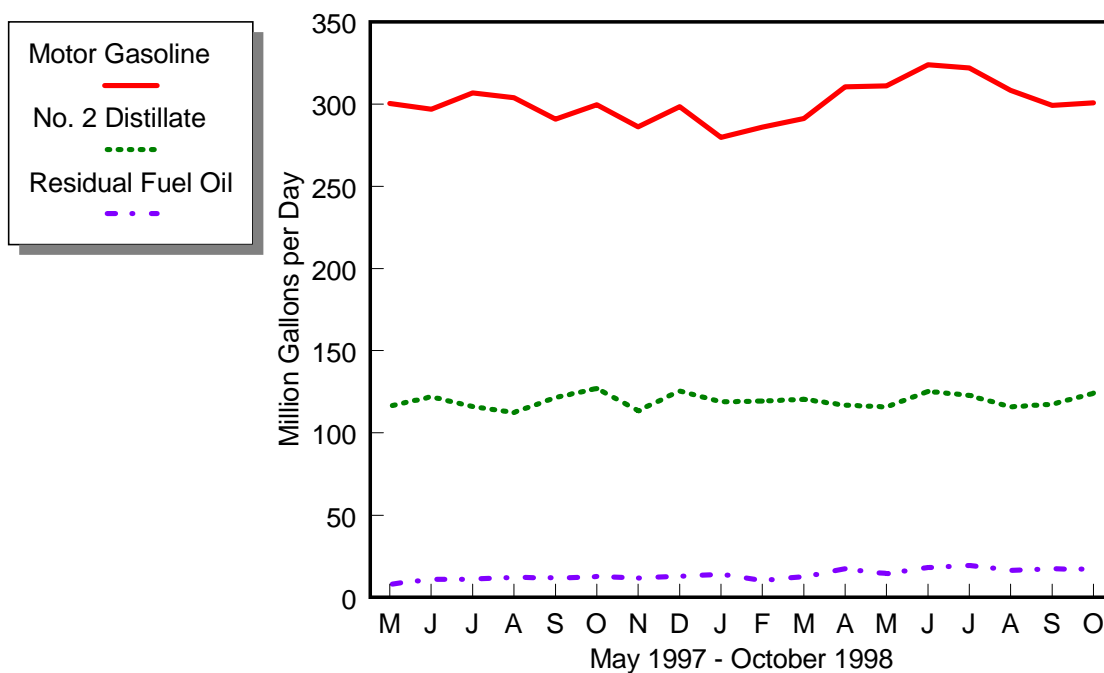
<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

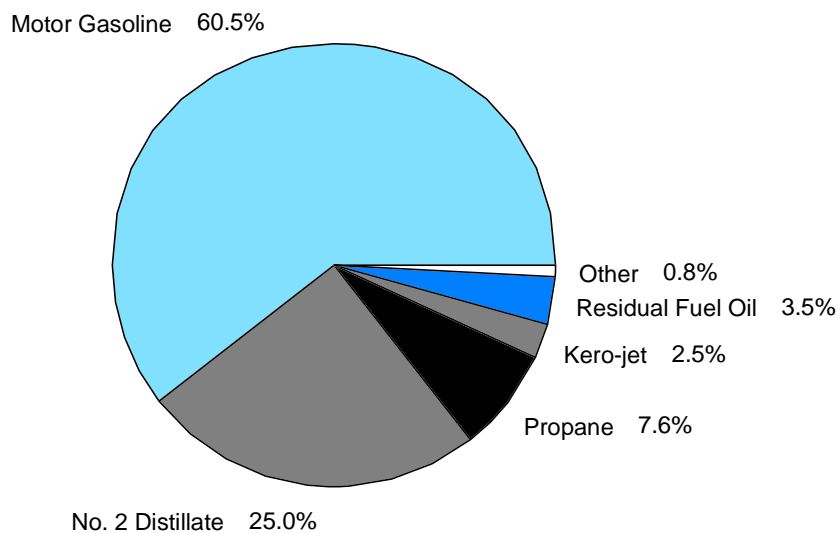
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Figure 5. U.S. Refiner Wholesale Petroleum Product Volumes



Percentages of Refiner Wholesale Volumes



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 6. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1983</b> .....	98.0	97.0	—	—	—	89.5	—	—	—	—	—	—
<b>1984</b> .....	92.2	91.4	—	—	—	84.2	—	—	—	—	—	—
<b>1985</b> .....	92.5	91.7	—	—	—	84.3	—	—	—	—	—	—
<b>1986</b> .....	62.4	61.6	—	—	—	52.2	—	—	—	—	—	—
<b>1987</b> .....	65.9	65.0	—	—	—	56.9	—	—	—	—	—	—
<b>1988</b> .....	64.9	64.1	—	—	—	54.8	—	—	—	—	—	—
<b>1989</b> .....	72.0	71.4	—	—	—	61.8	79.6	79.3	—	—	—	68.6
<b>1990</b> .....	85.3	84.9	—	—	—	75.8	92.3	92.1	—	—	—	81.4
<b>1991</b> .....	76.4	76.1	—	—	—	67.2	84.7	84.3	—	—	—	73.3
<b>1992</b> .....	74.6	74.3	—	—	—	64.5	83.1	82.7	—	—	—	70.8
<b>1993</b> .....	71.6	71.2	—	—	—	59.3	81.0	80.5	—	—	—	66.0
<b>1994</b> .....	69.5	68.9	64.6	54.7	50.2	56.6	79.1	78.5	70.4	58.4	NA	63.8
<b>1995</b> .....	72.3	71.7	68.2	57.6	53.4	59.3	81.3	80.8	73.7	61.9	NA	67.0
<b>1996</b>												
January .....	70.5	69.9	66.3	55.9	52.2	57.7	79.6	79.1	71.7	60.3	—	65.4
February .....	70.5	70.0	66.4	57.0	53.0	58.4	79.8	79.3	72.2	61.1	—	66.1
March .....	75.8	75.3	70.9	64.0	59.3	64.9	84.7	84.3	77.0	67.9	W	72.0
April .....	84.5	83.9	81.0	72.4	66.6	73.2	93.7	93.2	87.0	76.9	—	81.3
May .....	89.3	88.8	88.0	72.7	68.0	75.2	99.1	98.6	93.7	77.0	—	84.2
June .....	86.9	86.3	85.2	67.4	61.6	70.0	96.5	95.9	91.0	70.6	—	79.4
July .....	83.9	83.4	81.9	67.3	62.0	69.4	93.4	93.0	87.6	71.2	—	78.1
August .....	81.2	80.7	78.0	66.7	61.5	68.3	90.6	90.2	83.7	70.5	NA	76.1
September .....	80.8	80.4	76.4	67.7	62.4	68.8	89.8	89.4	82.1	71.5	W	76.1
October .....	80.9	80.4	75.7	69.7	63.4	70.1	90.1	89.7	81.5	73.7	W	77.1
November .....	83.4	82.9	75.7	72.1	65.7	71.9	92.2	91.7	81.3	75.6	W	78.1
December .....	82.5	82.0	75.4	70.1	65.7	70.4	91.6	91.2	81.3	74.4	NA	77.4
<b>1996</b> .....	81.2	80.7	77.0	67.2	62.2	68.5	90.1	89.6	82.4	70.9	NA	75.9
<b>1997</b>												
January .....	83.0	82.5	77.2	71.9	67.8	72.4	92.4	92.0	82.9	76.1	W	79.1
February .....	82.4	81.9	77.3	69.3	65.8	70.4	91.9	91.5	82.8	73.2	W	77.5
March .....	80.4	79.9	76.6	66.9	64.9	68.7	90.1	89.7	82.3	71.0	74.8	76.0
April .....	80.3	79.7	77.7	65.5	62.4	67.7	89.9	89.6	82.9	69.6	W	75.4
May .....	81.0	80.5	76.5	67.6	62.3	68.6	90.2	89.9	82.3	70.8	W	75.7
June .....	79.7	79.2	74.9	63.9	58.9	65.6	89.1	88.7	80.8	67.2	W	73.0
July .....	77.9	77.4	72.4	63.9	57.9	64.8	87.3	86.9	78.4	67.5	W	71.9
August .....	83.2	82.8	79.2	71.4	66.1	72.2	92.7	92.3	85.4	75.3	W	79.5
September .....	83.6	83.1	81.2	67.1	63.4	69.5	93.2	92.9	87.4	71.0	W	77.9
October .....	80.8	80.3	78.2	63.2	59.6	65.7	90.5	90.1	84.1	67.2	W	74.2
November .....	78.1	77.6	75.1	60.6	56.0	63.1	87.7	87.4	80.9	64.6	W	71.5
December .....	74.1	73.5	70.7	56.3	53.3	58.9	83.9	83.6	76.7	60.7	W	67.4
<b>1997</b> .....	80.3	79.8	76.4	65.6	61.5	67.3	89.8	89.5	82.2	69.4	71.1	74.9
<b>1998</b>												
January .....	69.7	69.2	66.0	52.2	50.4	54.8	78.6	78.2	72.1	56.6	W	63.2
February .....	65.2	64.8	60.4	50.9	48.3	52.5	74.8	74.5	66.3	54.8	W	59.7
March .....	61.7	61.4	55.9	48.4	46.0	49.7	71.2	70.9	62.1	52.3	W	56.4
April .....	63.6	63.3	58.1	51.6	48.5	52.4	73.0	72.7	64.2	55.6	W	59.2
May .....	67.3	67.0	63.1	54.3	49.7	55.3	76.5	76.3	69.0	58.1	W	62.6
June .....	66.7	66.3	62.0	51.6	46.9	52.9	76.2	75.9	68.1	55.4	W	60.6
July .....	65.5	65.1	61.1	50.2	45.5	51.5	75.2	74.9	67.0	53.9	W	59.0
August .....	62.8	62.3	58.8	45.6	41.9	47.6	72.8	72.4	64.8	49.5	W	55.5
September .....	61.5	61.0	57.6	46.5	42.3	48.1	71.4	71.1	63.6	50.3	W	55.6
October .....	62.4	62.0	58.1	48.0	43.8	49.5	72.1	71.9	64.3	52.4	NA	57.1

See footnotes at end of table.

**Table 6. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type**

(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
1983 .....	108.0	105.7	—	—	—	96.4	96.4	95.4	—	—	—	88.2
1984 .....	102.1	101.5	—	—	—	91.6	91.4	90.7	—	—	—	83.2
1985 .....	103.0	102.3	—	—	—	92.2	92.1	91.2	—	—	—	83.5
1986 .....	74.8	73.7	—	—	—	61.0	63.2	62.4	—	—	—	53.1
1987 .....	79.0	78.4	—	—	—	67.1	67.8	66.9	—	—	—	58.9
1988 .....	79.4	78.8	—	—	—	67.2	68.1	67.3	—	—	—	57.7
1989 .....	87.4	86.8	—	—	—	74.9	76.3	75.6	—	—	—	65.4
1990 .....	99.0	98.5	—	—	—	87.4	88.8	88.3	—	—	—	78.6
1991 .....	91.2	90.7	—	—	—	79.2	80.0	79.7	—	—	—	69.9
1992 .....	92.0	91.4	—	—	—	77.4	79.2	78.7	—	—	—	67.7
1993 .....	89.6	88.9	—	—	—	72.2	76.5	75.9	—	—	—	62.6
1994 .....	87.3	86.5	78.7	64.0	55.6	69.5	74.4	73.8	69.3	56.7	50.9	59.9
1995 .....	89.7	89.0	82.2	67.3	58.3	72.2	77.1	76.5	72.9	59.8	54.0	62.6
<b>1996</b>												
January .....	88.3	87.5	79.5	65.7	57.2	70.1	75.4	74.8	70.8	58.1	52.9	61.0
February .....	88.4	87.7	80.0	66.6	57.2	70.6	75.5	74.9	71.0	59.1	53.6	61.6
March .....	93.3	92.6	84.6	73.3	63.9	76.9	80.4	79.8	75.4	66.0	59.8	67.9
April .....	102.1	101.3	93.8	81.9	74.9	85.8	88.8	88.1	85.0	74.3	67.3	76.1
May .....	106.6	105.7	100.3	82.1	74.0	87.9	93.3	92.7	91.5	74.5	68.5	78.0
June .....	103.9	103.0	97.7	76.1	66.9	83.0	91.0	90.3	88.9	69.0	62.1	73.0
July .....	101.1	100.3	94.5	76.7	68.0	82.1	88.0	87.5	85.6	69.2	62.5	72.3
August .....	98.3	97.6	90.9	75.9	65.2	80.3	85.4	84.9	81.8	68.5	61.8	71.1
September .....	98.0	97.3	89.4	77.0	68.1	80.9	84.9	84.4	80.3	69.5	63.1	71.6
October .....	98.2	97.5	89.4	79.2	68.7	82.0	85.0	84.4	79.8	71.5	64.1	72.8
November .....	100.4	99.7	89.7	81.7	71.1	83.9	87.3	86.8	79.8	73.9	66.1	74.5
December .....	100.2	99.5	89.5	80.1	70.8	82.4	86.5	86.0	79.5	72.0	66.3	73.1
<b>1996</b> .....	<b>97.9</b>	<b>97.2</b>	<b>89.7</b>	<b>76.2</b>	<b>66.9</b>	<b>80.3</b>	<b>85.3</b>	<b>84.7</b>	<b>80.9</b>	<b>69.0</b>	<b>62.7</b>	<b>71.3</b>
<b>1997</b>												
January .....	101.0	100.2	W	81.7	72.0	84.5	87.2	86.6	81.2	73.8	68.2	75.0
February .....	100.2	99.6	W	78.6	69.6	82.6	86.5	85.9	81.2	71.0	66.1	73.0
March .....	98.3	97.6	89.9	76.3	68.5	80.6	84.6	84.0	80.5	68.7	65.3	71.4
April .....	97.9	97.5	W	75.0	66.5	79.7	84.4	83.9	81.3	67.4	62.8	70.4
May .....	97.9	97.3	W	76.8	67.9	80.5	85.0	84.5	80.3	69.3	62.8	71.3
June .....	96.8	96.1	W	73.1	64.9	77.5	83.8	83.3	78.8	65.6	59.7	68.4
July .....	95.5	94.8	W	73.5	63.6	77.0	82.0	81.5	76.4	65.7	58.4	67.5
August .....	100.8	100.3	W	81.2	73.9	84.5	87.2	86.8	83.2	73.3	66.9	75.0
September .....	101.5	101.2	W	76.6	69.0	82.0	87.6	87.2	85.1	68.9	64.0	72.3
October .....	98.4	97.7	W	72.6	64.1	77.8	84.9	84.3	81.9	65.0	60.2	68.5
November .....	95.6	94.9	W	69.6	59.0	74.8	82.2	81.6	78.8	62.3	56.4	65.9
December .....	92.0	91.4	W	65.5	56.8	70.9	78.3	77.8	74.6	58.2	53.8	61.7
<b>1997</b> .....	<b>97.9</b>	<b>97.3</b>	<b>89.5</b>	<b>74.9</b>	<b>65.8</b>	<b>79.2</b>	<b>84.4</b>	<b>83.9</b>	<b>80.3</b>	<b>67.4</b>	<b>62.0</b>	<b>70.0</b>
<b>1998</b>												
January .....	87.1	86.5	79.2	61.5	54.5	67.2	73.9	73.3	69.9	54.1	50.8	57.6
February .....	83.0	82.4	73.7	60.0	51.0	64.4	69.4	69.0	64.4	52.7	48.5	55.1
March .....	79.4	78.9	69.5	57.6	48.8	61.1	66.0	65.6	60.0	50.3	46.3	52.3
April .....	81.2	80.6	W	60.9	53.1	63.8	67.8	67.4	62.1	53.5	48.9	54.9
May .....	84.4	84.0	W	63.7	55.1	66.8	71.4	71.0	66.8	56.1	50.3	57.9
June .....	84.1	83.6	W	61.1	52.4	64.9	70.8	70.4	65.9	53.5	47.4	55.6
July .....	83.4	82.9	W	59.6	51.2	63.7	69.9	69.4	65.0	52.1	46.0	54.3
August .....	80.7	80.0	W	55.3	48.4	60.1	67.2	66.7	62.9	47.5	42.6	50.6
September .....	79.4	78.7	W	55.9	47.3	59.9	66.0	65.4	61.7	48.4	42.9	50.9
October .....	80.4	79.9	71.5	57.8	48.6	61.6	66.9	66.4	62.3	50.0	44.4	52.4

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Data for the 4th quarter of 1993 were derived from two separate survey systems. The DTW, Rack, and Bulk components were derived from the revised EIA-782 survey system, while the End-Use and Average Resale categories were derived from the predecessor EIA-782 survey system. Therefore, the DTW, Rack, and Bulk components are not consistent with the Average Resale category. Beginning January 1994, all data are from the revised EIA-782 survey system and are consistent.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 7. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type**

(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1983</b> .....	20.0	23.5	-	-	-	98.3	-	-	-	-	-	-
<b>1984</b> .....	24.3	27.8	-	-	-	106.8	-	-	-	-	-	-
<b>1985</b> .....	26.2	29.9	-	-	-	119.7	-	-	-	-	-	-
<b>1986</b> .....	30.9	34.7	-	-	-	127.0	-	-	-	-	-	-
<b>1987</b> .....	32.7	36.1	-	-	-	141.9	-	-	-	-	-	-
<b>1988</b> .....	34.2	37.3	-	-	-	153.6	-	-	-	-	-	-
<b>1989</b> .....	34.3	36.8	-	-	-	155.7	4.9	5.1	-	-	-	16.4
<b>1990</b> .....	36.7	38.8	-	-	-	174.5	7.4	7.6	-	-	-	23.1
<b>1991</b> .....	38.4	40.4	-	-	-	180.9	7.9	8.2	-	-	-	23.7
<b>1992</b> .....	36.5	38.4	-	-	-	182.2	8.9	9.2	-	-	-	27.5
<b>1993</b> .....	35.6	37.2	-	-	-	184.0	8.7	8.9	-	-	-	27.7
<b>1994</b> .....	34.3	35.9	47.7	120.3	24.3	192.3	8.5	8.7	12.8	15.7	0.2	28.7
<b>1995</b> .....	34.3	35.9	43.8	126.2	31.8	201.8	9.6	9.8	13.3	17.2	0.1	30.6
<b>1996</b>												
January .....	32.2	33.7	41.0	115.8	25.9	182.7	9.5	9.8	12.9	16.0	-	28.9
February .....	33.1	34.7	42.8	121.9	32.1	196.8	9.7	10.0	13.6	16.9	-	30.5
March .....	35.0	36.7	45.1	122.5	28.8	196.4	10.0	10.3	13.7	17.0	W	30.7
April .....	36.6	38.7	46.9	132.1	39.8	218.8	9.6	9.9	13.4	17.0	-	30.4
May .....	38.5	40.3	48.7	137.8	38.8	225.2	9.2	9.5	12.6	16.5	-	29.2
June .....	39.3	41.0	48.1	137.3	43.1	228.6	9.6	9.8	12.6	16.6	-	29.3
July .....	38.6	40.4	47.3	141.2	40.8	229.4	9.5	9.8	12.6	17.4	-	29.9
August .....	38.8	40.7	48.0	141.8	35.2	225.0	9.6	10.0	12.7	17.3	NA	30.1
September .....	37.9	39.6	46.6	131.4	31.5	209.5	9.4	9.6	12.4	15.9	W	28.4
October .....	38.3	40.2	48.0	134.8	32.0	214.8	9.4	9.7	12.7	16.4	W	29.1
November .....	38.3	40.2	48.2	133.6	33.9	215.7	9.4	9.7	12.8	16.3	W	29.2
December .....	39.1	41.1	47.1	132.0	40.2	219.4	9.6	9.8	12.6	16.0	NA	28.7
<b>1996</b> .....	37.2	38.9	46.5	131.9	35.2	213.6	9.5	9.8	12.9	16.6	NA	29.5
<b>1997</b>												
January .....	35.6	37.6	45.0	122.6	33.7	201.3	8.8	9.1	12.1	15.0	W	27.1
February .....	37.8	39.9	46.7	127.7	38.1	212.6	9.1	9.4	12.4	15.5	W	27.9
March .....	38.4	40.5	47.0	129.9	35.1	212.0	9.3	9.6	12.3	15.5	0.0	27.9
April .....	38.5	40.7	47.7	134.5	33.9	216.1	9.3	9.6	12.2	16.1	W	28.3
May .....	38.1	39.8	45.9	135.5	34.2	215.7	9.2	9.5	12.2	16.3	W	28.5
June .....	39.3	41.0	46.1	138.7	29.1	214.0	9.5	9.8	12.3	16.7	W	29.0
July .....	43.2	44.9	45.7	148.0	31.9	225.6	10.4	10.7	12.3	18.0	W	30.3
August .....	43.4	45.1	46.3	144.9	33.2	224.5	10.3	10.5	12.2	17.2	W	29.5
September .....	42.8	44.5	45.2	137.6	33.1	215.9	10.0	10.2	11.6	16.2	W	27.9
October .....	43.2	45.0	45.8	140.6	35.4	221.8	10.1	10.3	11.8	16.8	W	28.6
November .....	41.8	43.3	46.3	132.0	32.3	210.6	9.8	10.0	11.7	15.7	W	27.4
December .....	44.1	45.7	46.8	135.6	37.2	219.6	10.6	10.7	11.8	16.5	W	28.3
<b>1997</b> .....	40.5	42.4	46.2	135.7	33.9	215.8	9.7	10.0	12.1	16.3	0.0	28.4
<b>1998</b>												
January .....	39.4	40.8	44.2	124.9	38.5	207.5	9.9	10.1	W	14.8	W	25.8
February .....	41.6	43.0	45.9	129.3	37.1	212.2	9.7	9.9	W	15.2	W	26.4
March .....	42.8	44.3	47.1	132.1	34.6	213.8	9.9	10.1	W	15.8	W	27.1
April .....	43.2	44.7	47.9	138.1	45.0	231.0	10.0	10.2	W	16.0	W	27.3
May .....	43.8	45.3	48.7	139.2	42.7	230.6	10.3	10.5	W	16.0	W	27.6
June .....	44.6	46.0	49.4	147.1	43.8	240.2	10.5	10.7	W	17.1	W	28.8
July .....	44.7	46.1	45.5	150.6	41.3	237.4	10.7	10.8	W	17.7	W	29.0
August .....	44.1	45.6	44.7	144.3	35.9	225.0	10.6	10.7	W	16.9	W	28.1
September .....	42.8	44.3	43.8	140.6	32.9	217.4	10.4	10.6	W	16.4	W	27.3
October .....	42.6	44.2	45.2	141.7	31.8	218.7	10.6	10.7	11.2	16.7	NA	28.0

See footnotes at end of table.

**Table 7. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type**

(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
1983 .....	5.0	6.2	—	—	—	28.7	42.3	51.1	—	—	—	242.5
1984 .....	8.5	9.2	—	—	—	33.7	50.3	57.6	—	—	—	246.3
1985 .....	9.2	10.0	—	—	—	38.0	50.5	57.5	—	—	—	256.9
1986 .....	9.0	9.8	—	—	—	45.1	54.2	61.2	—	—	—	257.2
1987 .....	11.2	11.6	—	—	—	53.0	55.7	61.0	—	—	—	257.2
1988 .....	13.8	14.5	—	—	—	62.4	56.7	61.0	—	—	—	263.7
1989 .....	13.5	14.2	—	—	—	60.8	57.5	61.2	—	—	—	260.7
1990 .....	11.2	11.7	—	—	—	53.7	57.4	60.3	—	—	—	264.8
1991 .....	10.5	10.9	—	—	—	48.3	58.4	61.2	—	—	—	261.3
1992 .....	10.3	10.7	—	—	—	51.7	56.4	59.0	—	—	—	265.4
1993 .....	10.3	10.6	—	—	—	52.8	54.9	57.2	—	—	—	266.9
1994 .....	10.0	10.3	22.6	29.9	3.2	55.7	52.8	55.0	83.1	165.9	27.7	276.7
1995 .....	9.8	10.2	20.8	31.5	4.2	56.4	53.7	55.9	77.9	174.8	36.0	288.8
<b>1996</b>												
January .....	9.2	9.5	19.4	29.3	4.2	52.9	50.9	53.0	73.3	161.0	30.1	264.5
February .....	9.5	9.8	20.4	30.6	5.1	56.1	52.3	54.6	76.8	169.4	37.2	283.4
March .....	9.1	9.4	19.9	29.6	3.6	53.2	54.1	56.4	78.7	169.1	32.5	280.3
April .....	8.3	8.6	18.5	28.4	3.6	50.5	54.5	57.2	78.7	177.5	43.4	299.7
May .....	7.6	8.0	16.6	26.6	3.7	47.0	55.4	57.8	77.9	181.0	42.5	301.4
June .....	8.1	8.4	17.3	27.6	4.1	49.0	56.9	59.2	78.1	181.5	47.2	306.8
July .....	8.3	8.7	17.4	29.9	3.8	51.1	56.4	58.9	77.4	188.4	44.6	310.4
August .....	8.6	9.0	18.0	30.0	3.8	51.8	57.1	59.7	78.8	189.0	39.1	306.9
September .....	8.2	8.6	17.6	27.1	3.7	48.5	55.5	57.8	76.6	174.5	35.3	286.4
October .....	8.2	8.5	17.8	27.7	4.2	49.8	55.9	58.5	78.5	178.9	36.2	293.7
November .....	7.9	8.2	17.7	26.6	3.3	47.6	55.6	58.1	78.8	176.5	37.2	292.6
December .....	8.0	8.3	17.2	26.2	5.5	48.9	56.7	59.2	76.9	174.2	45.8	297.0
1996 .....	8.4	8.8	18.2	28.3	4.1	50.5	55.1	57.5	77.5	176.8	39.3	293.6
<b>1997</b>												
January .....	7.4	7.8	W	24.6	3.5	44.5	51.8	54.4	73.5	162.2	37.2	272.8
February .....	7.7	8.0	W	25.3	2.8	45.0	54.6	57.3	76.0	168.5	40.9	285.4
March .....	8.0	8.3	17.2	26.0	3.9	47.2	55.7	58.4	76.6	171.4	39.1	287.1
April .....	8.1	8.5	W	27.5	3.9	48.7	55.8	58.9	77.1	178.1	37.8	293.0
May .....	8.1	8.6	W	28.2	3.7	49.0	55.4	57.8	75.4	180.0	37.9	293.3
June .....	8.6	9.0	W	28.8	4.4	50.6	57.4	59.8	75.9	184.1	33.5	293.5
July .....	9.3	9.8	W	31.1	3.4	51.9	62.8	65.3	75.4	197.1	35.4	307.9
August .....	8.7	9.1	W	29.4	4.0	50.1	62.5	64.8	75.3	191.5	37.3	304.0
September .....	8.4	8.9	W	27.1	3.8	46.6	61.2	63.7	72.5	180.9	37.0	290.4
October .....	8.7	9.0	W	28.2	4.8	49.2	62.0	64.4	73.9	185.6	40.2	299.6
November .....	8.6	8.9	W	26.8	4.9	48.4	60.3	62.3	74.7	174.5	37.2	286.4
December .....	9.4	9.6	W	28.5	4.9	50.5	64.0	66.0	75.7	180.5	42.1	298.4
1997 .....	8.4	8.8	16.9	27.6	4.0	48.5	58.7	61.1	75.1	179.6	38.0	292.7
<b>1998</b>												
January .....	8.8	9.0	W	26.5	W	46.3	58.1	59.9	71.4	166.2	42.0	279.7
February .....	9.2	9.4	W	27.2	W	47.2	60.5	62.3	74.3	171.7	39.9	285.9
March .....	9.7	9.9	W	28.6	W	50.2	62.4	64.3	76.2	176.5	38.4	291.1
April .....	9.5	9.8	W	29.5	W	52.2	62.8	64.7	76.9	183.6	50.1	310.5
May .....	9.6	9.9	W	30.2	W	53.0	63.8	65.6	77.9	185.4	47.8	311.1
June .....	9.8	10.1	W	31.8	W	54.9	64.9	66.8	79.4	195.9	48.6	323.9
July .....	10.1	10.4	W	33.9	W	55.5	65.5	67.3	74.6	202.2	45.1	321.9
August .....	10.2	10.5	W	33.0	W	55.3	64.8	66.9	73.8	194.2	40.4	308.4
September .....	10.0	10.3	W	32.1	W	54.5	63.2	65.2	72.3	189.2	37.8	299.2
October .....	10.0	10.2	17.9	31.8	4.5	54.2	63.1	65.1	74.3	190.2	36.3	300.8

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Data for the 4th quarter of 1993 were derived from two separate survey systems. The DTW, Rack, and Bulk components were derived from the revised EIA-782 survey system, while the End-Use and Average Resale categories were derived from the predecessor EIA-782 survey system. Therefore, the DTW, Rack, and Bulk components are not consistent with the Average Resale category. Beginning January 1994, all data are from the revised EIA-782 survey system and are consistent.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 8. U.S. Refiner Conventional Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>68.7</b>	<b>68.1</b>	<b>63.6</b>	<b>54.5</b>	<b>50.0</b>	<b>55.8</b>	<b>78.4</b>	<b>77.8</b>	<b>69.4</b>	<b>NA</b>	<b>NA</b>	<b>62.7</b>
<b>1995</b> .....	<b>71.0</b>	<b>70.4</b>	<b>65.1</b>	<b>57.0</b>	<b>52.5</b>	<b>57.3</b>	<b>80.0</b>	<b>79.4</b>	<b>71.1</b>	<b>61.0</b>	<b>NA</b>	<b>63.7</b>
<b>1996</b>												
January .....	68.4	67.8	61.8	54.9	51.4	55.0	77.5	76.9	68.0	59.1	—	61.2
February .....	68.5	67.9	63.4	56.2	52.1	56.4	77.9	77.3	69.7	60.2	—	62.9
March .....	74.7	74.1	69.1	63.5	57.8	63.5	83.7	83.2	75.4	67.3	W	69.7
April .....	82.9	82.2	77.5	71.5	64.0	70.8	92.0	91.4	83.8	75.7	—	77.9
May .....	86.2	85.7	82.1	71.8	65.3	71.9	95.5	95.0	87.7	75.8	—	78.8
June .....	83.6	83.0	79.0	66.6	60.0	66.6	92.6	92.0	84.8	69.3	—	73.2
July .....	81.2	80.7	76.4	66.6	60.1	66.5	90.3	89.8	82.3	70.1	—	73.1
August .....	79.3	78.8	74.3	66.1	60.0	66.1	88.4	87.9	80.6	69.6	W	72.2
September .....	79.9	79.4	74.7	67.1	60.9	67.1	88.7	88.2	81.0	70.7	—	73.3
October .....	79.9	79.4	75.7	69.3	62.6	68.9	89.1	88.5	82.3	73.2	—	75.4
November .....	83.8	83.2	78.2	71.9	65.8	71.6	92.1	91.6	84.2	75.2	—	77.3
December .....	82.8	82.2	76.3	69.5	64.6	69.2	91.5	90.9	83.0	73.7	W	75.8
<b>1996</b> .....	<b>79.7</b>	<b>79.1</b>	<b>74.3</b>	<b>66.5</b>	<b>60.7</b>	<b>66.4</b>	<b>88.4</b>	<b>87.8</b>	<b>80.1</b>	<b>70.0</b>	<b>NA</b>	<b>72.6</b>
<b>1997</b>												
January .....	82.4	81.7	76.7	71.2	66.2	70.8	91.4	90.9	83.1	75.4	—	77.2
February .....	80.7	80.1	74.9	68.5	64.3	68.3	90.1	89.5	81.3	72.3	—	74.5
March .....	78.5	77.9	72.4	66.1	62.7	66.2	88.4	87.9	78.7	70.1	W	72.2
April .....	78.7	77.9	73.1	65.0	60.7	65.2	88.3	87.8	78.8	69.0	—	71.4
May .....	79.6	79.1	73.4	67.3	61.9	67.1	88.7	88.3	79.1	70.3	—	72.5
June .....	78.5	78.0	72.1	63.7	59.1	64.0	87.7	87.2	78.5	66.8	—	69.6
July .....	76.6	76.1	69.7	63.6	57.5	63.3	85.8	85.4	76.2	67.1	—	69.1
August .....	82.0	81.5	75.8	70.8	63.9	70.3	91.1	90.7	81.9	74.4	—	76.1
September .....	80.5	79.9	74.4	66.1	60.8	66.1	89.8	89.4	81.1	69.6	—	72.2
October .....	76.9	76.3	70.2	62.1	57.0	62.0	86.5	86.1	76.7	65.7	—	68.1
November .....	73.9	73.4	66.9	59.3	54.8	59.3	83.2	82.8	73.6	63.1	—	65.4
December .....	69.5	68.9	62.3	55.0	51.7	55.1	78.8	78.5	69.3	59.1	—	61.3
<b>1997</b> .....	<b>78.1</b>	<b>77.5</b>	<b>71.9</b>	<b>64.9</b>	<b>60.0</b>	<b>64.8</b>	<b>87.4</b>	<b>86.9</b>	<b>78.3</b>	<b>68.5</b>	<b>W</b>	<b>70.8</b>
<b>1998</b>												
January .....	65.9	65.3	58.0	50.9	49.1	51.2	74.3	73.8	65.4	55.2	—	57.5
February .....	63.1	62.7	55.6	49.9	47.2	49.9	72.2	71.7	62.1	53.7	—	55.6
March .....	60.8	60.4	52.9	47.7	45.1	47.8	69.9	69.5	59.7	51.5	—	53.3
April .....	62.4	62.1	55.0	50.9	47.0	50.5	71.7	71.3	61.4	54.7	—	56.2
May .....	65.3	64.9	58.3	53.5	48.6	53.0	74.3	74.0	64.3	57.1	—	58.8
June .....	64.8	64.4	57.3	51.0	46.2	50.7	74.1	73.8	63.7	54.5	W	56.6
July .....	63.7	63.2	57.1	49.7	44.8	49.4	73.0	72.7	63.2	53.0	—	55.1
August .....	60.3	59.8	54.7	44.9	40.7	45.0	70.0	69.6	60.8	48.4	—	51.0
September .....	59.0	58.5	53.3	45.7	40.8	45.6	68.6	68.2	59.5	49.3	—	51.4
October .....	60.4	60.0	54.5	47.3	42.5	47.3	69.9	69.5	60.6	51.6	—	53.5

See footnotes at end of table.

**Table 8. U.S. Refiner Conventional Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>86.3</b>	<b>85.5</b>	<b>77.8</b>	<b>63.8</b>	<b>55.5</b>	<b>68.2</b>	<b>73.6</b>	<b>72.9</b>	<b>68.3</b>	<b>56.5</b>	<b>50.7</b>	<b>58.9</b>
<b>1995</b> .....	<b>87.7</b>	<b>86.8</b>	<b>79.0</b>	<b>66.5</b>	<b>56.8</b>	<b>68.4</b>	<b>75.3</b>	<b>74.6</b>	<b>69.3</b>	<b>59.0</b>	<b>53.0</b>	<b>59.8</b>
<b>1996</b>												
January .....	85.5	84.6	75.3	64.6	55.6	65.6	72.9	72.2	66.2	57.0	52.0	57.5
February .....	85.9	84.9	77.3	65.8	55.4	67.1	73.1	72.4	67.8	58.2	52.5	58.9
March .....	92.0	91.1	82.8	72.9	61.0	74.3	79.0	78.3	73.2	65.5	58.1	65.9
April .....	100.1	99.2	90.0	81.0	71.1	82.1	86.8	86.0	81.0	73.3	64.4	73.1
May .....	103.3	102.4	94.7	81.1	71.0	83.0	89.9	89.3	85.4	73.5	65.7	74.0
June .....	100.3	99.3	92.0	75.3	64.4	77.8	87.2	86.6	82.4	68.1	60.2	68.7
July .....	98.1	97.2	89.4	75.9	65.9	77.7	85.0	84.4	79.9	68.4	60.4	68.7
August .....	96.2	95.3	87.6	75.2	62.7	76.5	83.1	82.5	77.9	67.8	60.2	68.2
September .....	96.9	95.9	88.2	76.4	65.8	78.0	83.6	83.1	78.4	68.9	61.3	69.2
October .....	96.7	95.8	89.3	78.7	67.4	79.5	83.7	83.1	79.4	71.0	63.1	71.0
November .....	100.2	99.2	91.4	81.3	71.3	82.4	87.2	86.6	81.8	73.6	66.2	73.6
December .....	99.9	98.9	90.4	79.3	69.1	79.8	86.5	85.7	80.2	71.3	65.1	71.3
<b>1996</b> .....	<b>96.0</b>	<b>95.1</b>	<b>86.9</b>	<b>75.5</b>	<b>64.5</b>	<b>76.7</b>	<b>83.4</b>	<b>82.7</b>	<b>77.8</b>	<b>68.2</b>	<b>61.0</b>	<b>68.5</b>
<b>1997</b>												
January .....	99.8	98.6	90.7	81.0	70.1	81.7	86.1	85.4	80.6	73.0	66.5	72.9
February .....	98.3	97.4	88.7	78.0	67.8	79.2	84.5	83.8	78.7	70.3	64.5	70.3
March .....	96.3	95.5	86.3	W	66.6	76.8	82.5	81.8	76.1	67.9	63.0	68.2
April .....	96.4	95.5	86.4	74.5	64.9	75.8	82.6	81.8	76.6	66.8	61.0	67.3
May .....	96.6	95.6	86.4	76.4	66.3	77.5	83.4	82.8	76.9	69.0	62.2	69.1
June .....	95.4	94.6	85.5	72.8	64.9	74.4	82.3	81.7	75.8	65.4	59.7	66.1
July .....	93.9	93.1	83.5	73.1	63.0	74.3	80.5	79.9	73.5	65.4	57.9	65.5
August .....	99.2	98.3	89.3	80.4	71.4	81.1	85.7	85.1	79.3	72.5	64.6	72.4
September .....	98.2	97.5	88.4	75.5	66.0	76.8	84.3	83.7	78.1	67.8	61.2	68.1
October .....	94.5	93.6	84.0	71.5	61.6	72.6	80.8	80.2	73.9	63.8	57.4	64.1
November .....	91.2	90.4	81.0	68.4	56.3	69.3	77.8	77.2	70.8	61.0	55.0	61.3
December .....	87.2	86.4	76.6	64.3	54.7	65.3	73.5	72.9	66.3	56.8	52.0	57.1
<b>1997</b> .....	<b>95.4</b>	<b>94.6</b>	<b>85.6</b>	<b>74.2</b>	<b>64.1</b>	<b>75.3</b>	<b>81.9</b>	<b>81.3</b>	<b>75.6</b>	<b>66.6</b>	<b>60.4</b>	<b>66.8</b>
<b>1998</b>												
January .....	83.0	82.2	72.7	60.4	52.7	61.7	69.8	69.1	62.2	52.8	49.4	53.3
February .....	80.4	79.6	69.1	59.2	49.5	60.3	67.1	66.5	59.4	51.7	47.4	51.9
March .....	78.0	77.3	66.4	56.9	47.0	57.9	64.8	64.3	56.7	49.5	45.2	49.8
April .....	79.7	79.1	68.2	60.4	50.2	60.6	66.4	66.0	58.6	52.7	47.3	52.4
May .....	82.2	81.6	71.0	63.1	53.7	63.5	69.1	68.7	61.8	55.3	49.0	55.1
June .....	82.0	81.3	W	60.6	51.7	61.2	68.8	68.3	60.9	52.9	46.7	52.8
July .....	80.8	80.2	70.2	59.2	50.9	60.2	67.7	67.2	60.9	51.5	45.3	51.6
August .....	77.8	76.9	67.9	54.7	47.8	56.0	64.5	63.9	58.5	46.8	41.4	47.3
September .....	76.5	75.5	66.5	55.3	45.9	56.1	63.2	62.6	57.2	47.6	41.3	47.8
October .....	78.0	77.3	67.8	57.2	47.1	58.0	64.6	64.1	58.3	49.3	43.0	49.5

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 9. U.S. Refiner Conventional Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>29.7</b>	<b>31.2</b>	<b>36.1</b>	<b>113.5</b>	<b>22.8</b>	<b>172.4</b>	<b>7.6</b>	<b>7.8</b>	<b>10.1</b>	<b>14.6</b>	<b>0.1</b>	<b>24.8</b>
<b>1995</b> .....	<b>24.0</b>	<b>25.3</b>	<b>19.4</b>	<b>105.1</b>	<b>26.0</b>	<b>150.5</b>	<b>6.0</b>	<b>6.3</b>	<b>5.1</b>	<b>13.6</b>	<b>0.1</b>	<b>18.7</b>
<b>1996</b>												
January .....	19.2	20.3	13.1	92.5	21.3	126.9	5.1	5.2	3.7	12.0	—	15.7
February .....	21.2	22.5	18.3	100.4	26.2	144.9	5.7	5.9	5.3	13.3	—	18.5
March .....	24.5	25.9	21.5	103.3	23.2	148.1	6.4	6.6	5.8	13.8	W	19.6
April .....	25.7	27.3	20.4	110.7	31.9	163.0	6.2	6.4	5.1	13.5	—	18.6
May .....	26.3	27.6	19.0	114.2	27.7	160.8	5.8	6.0	4.3	12.9	—	17.2
June .....	26.5	27.7	18.7	112.9	34.2	165.9	6.0	6.2	4.3	12.9	—	17.2
July .....	26.1	27.4	18.8	117.7	31.7	168.1	6.0	6.2	4.4	13.6	—	17.9
August .....	26.4	27.7	18.9	117.5	25.1	161.4	6.1	6.3	4.4	13.4	W	17.9
September .....	25.2	26.5	17.7	108.3	22.9	148.9	5.8	6.0	4.2	12.4	—	16.6
October .....	23.8	25.1	16.4	110.4	25.0	151.9	5.5	5.7	3.9	12.7	—	16.6
November .....	22.2	23.5	16.0	107.6	25.5	149.1	5.1	5.3	3.9	12.5	—	16.4
December .....	22.1	23.4	15.2	105.5	30.6	151.3	5.0	5.2	3.7	12.1	W	15.9
<b>1996</b> .....	<b>24.1</b>	<b>25.4</b>	<b>17.8</b>	<b>108.5</b>	<b>27.1</b>	<b>153.4</b>	<b>5.7</b>	<b>5.9</b>	<b>4.4</b>	<b>12.9</b>	<b>NA</b>	<b>17.3</b>
<b>1997</b>												
January .....	20.6	22.0	14.8	98.3	26.4	139.6	4.7	4.9	3.7	11.5	—	15.1
February .....	22.1	23.7	15.4	102.9	31.2	149.5	5.0	5.2	3.8	11.9	—	15.7
March .....	24.0	25.5	16.8	106.4	27.7	150.9	5.5	5.7	4.0	12.2	W	16.2
April .....	25.1	26.9	18.2	111.8	26.9	156.9	5.8	5.9	4.2	12.9	—	17.0
May .....	24.7	26.0	17.7	112.7	26.3	156.7	5.7	5.8	4.2	13.0	—	17.1
June .....	25.6	26.9	17.7	115.4	22.1	155.2	5.9	6.1	4.2	13.3	—	17.4
July .....	27.8	29.1	17.2	123.4	25.2	165.8	6.4	6.6	4.1	14.4	—	18.5
August .....	27.3	28.7	17.3	119.9	24.7	161.9	6.2	6.4	4.0	13.5	—	17.6
September .....	26.4	27.8	16.2	113.1	25.8	155.1	6.0	6.2	3.7	12.7	—	16.5
October .....	26.1	27.5	15.8	113.9	26.7	156.4	6.0	6.1	3.7	13.0	—	16.7
November .....	24.3	25.5	14.7	104.9	25.4	145.1	5.5	5.7	3.5	11.9	—	15.4
December .....	25.1	26.4	14.8	107.4	28.4	150.7	5.8	6.0	3.5	12.6	—	16.1
<b>1997</b> .....	<b>25.0</b>	<b>26.4</b>	<b>16.4</b>	<b>110.9</b>	<b>26.4</b>	<b>153.7</b>	<b>5.7</b>	<b>5.9</b>	<b>3.9</b>	<b>12.7</b>	<b>W</b>	<b>16.6</b>
<b>1998</b>												
January .....	22.8	24.0	14.0	98.7	30.2	142.9	5.5	5.7	3.3	11.2	—	14.4
February .....	24.4	25.5	14.8	102.4	29.7	146.9	5.5	5.7	3.4	11.4	—	14.8
March .....	25.9	27.1	15.6	106.5	27.8	149.9	6.0	6.1	3.5	12.2	—	15.7
April .....	26.5	27.7	16.7	112.4	36.4	165.4	6.1	6.2	3.6	12.4	—	16.0
May .....	27.3	28.5	17.4	112.9	33.0	163.2	6.3	6.4	3.8	12.4	—	16.2
June .....	27.6	28.8	17.7	119.6	35.5	172.8	6.4	6.5	W	13.2	W	17.0
July .....	27.4	28.6	14.4	123.3	30.7	168.4	6.4	6.5	3.5	13.6	—	17.2
August .....	27.2	28.4	14.0	117.2	28.1	159.3	6.3	6.5	3.5	13.0	—	16.5
September .....	25.8	27.0	13.2	113.9	23.6	150.7	6.1	6.3	3.2	12.6	—	15.8
October .....	26.7	27.9	14.5	113.7	23.3	151.5	6.4	6.6	3.4	12.8	—	16.2

See footnotes at end of table.

**Table 9. U.S. Refiner Conventional Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>8.5</b>	<b>8.9</b>	<b>16.5</b>	<b>28.0</b>	<b>2.8</b>	<b>47.2</b>	<b>45.8</b>	<b>47.9</b>	<b>62.7</b>	<b>156.0</b>	<b>25.8</b>	<b>244.5</b>
<b>1995</b> .....	<b>6.2</b>	<b>6.4</b>	<b>7.7</b>	<b>25.1</b>	<b>2.9</b>	<b>35.6</b>	<b>36.2</b>	<b>38.0</b>	<b>32.1</b>	<b>143.8</b>	<b>28.9</b>	<b>204.8</b>
<b>1996</b>												
January .....	5.0	5.2	5.6	22.8	3.0	31.4	29.2	30.8	22.4	127.3	24.3	174.0
February .....	5.5	5.7	7.5	24.4	3.8	35.7	32.3	34.1	31.1	138.1	30.0	199.1
March .....	5.6	5.9	7.8	24.0	2.4	34.1	36.5	38.4	35.1	141.1	25.6	201.8
April .....	5.1	5.3	6.2	22.8	2.1	31.1	36.9	39.0	31.7	147.0	34.0	212.7
May .....	4.7	4.9	5.5	21.3	2.0	28.7	36.8	38.5	28.7	148.3	29.6	206.7
June .....	5.0	5.2	5.6	21.9	1.8	29.3	37.5	39.1	28.6	147.7	36.0	212.3
July .....	5.1	5.4	5.8	24.0	2.1	31.9	37.2	38.9	28.9	155.3	33.8	218.0
August .....	5.3	5.6	5.8	23.9	2.3	32.1	37.9	39.6	29.1	154.9	27.5	211.4
September .....	4.9	5.1	5.5	21.6	1.8	29.0	36.0	37.6	27.4	142.4	24.7	194.5
October .....	4.5	4.8	5.1	21.9	2.8	29.9	33.8	35.5	25.5	145.0	27.9	198.4
November .....	4.1	4.3	5.0	20.7	1.9	27.6	31.3	33.0	24.8	140.8	27.5	193.0
December .....	4.0	4.3	4.8	20.3	3.9	29.0	31.2	32.9	23.7	138.0	34.6	196.2
<b>1996</b> .....	<b>4.9</b>	<b>5.1</b>	<b>5.8</b>	<b>22.5</b>	<b>2.5</b>	<b>30.8</b>	<b>34.7</b>	<b>36.5</b>	<b>28.1</b>	<b>143.8</b>	<b>29.6</b>	<b>201.5</b>
<b>1997</b>												
January .....	3.9	4.1	4.7	19.2	2.4	26.3	29.2	31.1	23.2	129.0	28.8	181.0
February .....	4.1	4.3	4.9	19.8	2.0	26.7	31.3	33.2	24.1	134.7	33.2	191.9
March .....	4.6	4.8	5.2	W	2.4	28.4	34.1	36.0	26.0	139.3	30.2	195.5
April .....	4.8	5.0	5.5	22.1	2.5	30.1	35.7	37.9	27.9	146.7	29.4	204.0
May .....	4.8	5.0	5.6	22.6	2.1	30.3	35.2	36.9	27.4	148.3	28.4	204.1
June .....	5.1	5.3	5.6	23.0	2.8	31.4	36.5	38.2	27.4	151.7	28.4	204.0
July .....	5.4	5.7	5.5	25.0	1.9	32.4	39.7	41.3	26.8	162.8	27.0	216.6
August .....	5.0	5.2	5.2	23.5	2.6	31.3	38.5	40.2	26.5	156.9	27.3	210.7
September .....	4.8	5.0	4.8	21.7	2.5	29.0	37.3	39.0	24.7	147.5	28.4	200.6
October .....	4.9	5.2	4.9	22.3	2.8	29.9	37.0	38.9	24.4	149.2	29.5	203.0
November .....	4.7	5.0	4.7	20.9	2.7	28.3	34.6	36.1	22.9	137.7	28.2	188.7
December .....	5.1	5.3	4.8	22.2	3.0	30.0	36.0	37.7	23.1	142.2	31.4	196.8
<b>1997</b> .....	<b>4.8</b>	<b>5.0</b>	<b>5.1</b>	<b>21.9</b>	<b>2.5</b>	<b>29.5</b>	<b>35.4</b>	<b>37.2</b>	<b>25.4</b>	<b>145.6</b>	<b>28.9</b>	<b>199.8</b>
<b>1998</b>												
January .....	4.8	5.0	4.6	20.7	2.5	27.7	33.2	34.7	21.8	130.6	32.7	185.1
February .....	5.1	5.3	4.8	21.2	1.7	27.7	35.0	36.5	23.0	135.1	31.4	189.5
March .....	5.6	5.8	5.1	22.7	2.0	29.8	37.5	39.0	24.2	141.4	29.8	195.3
April .....	5.5	5.8	5.3	23.5	3.2	32.0	38.1	39.7	25.5	148.3	39.5	213.4
May .....	5.6	5.8	5.4	24.1	3.2	32.6	39.2	40.7	26.5	149.4	36.2	212.0
June .....	5.7	5.9	W	25.4	W	34.5	39.7	41.2	27.1	158.2	39.1	224.3
July .....	5.8	6.0	5.0	27.1	2.6	34.7	39.6	41.1	22.9	164.1	33.3	220.3
August .....	5.9	6.2	5.0	26.2	2.9	34.1	39.5	41.1	22.4	156.4	31.0	209.8
September .....	5.7	6.0	4.7	25.5	2.6	32.8	37.6	39.2	21.1	152.0	26.2	199.3
October .....	5.8	6.0	4.9	24.9	2.5	32.3	38.9	40.5	22.8	151.4	25.9	200.0

Dash (–) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 10. U.S. Refiner Oxygenated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>74.3</b>	<b>73.9</b>	<b>66.7</b>	<b>58.6</b>	<b>52.7</b>	<b>63.2</b>	<b>84.3</b>	<b>83.8</b>	<b>72.7</b>	<b>62.2</b>	<b>W</b>	<b>69.6</b>
<b>1995</b> .....	<b>76.7</b>	<b>76.5</b>	<b>70.9</b>	<b>63.0</b>	<b>59.2</b>	<b>66.5</b>	<b>83.4</b>	<b>83.3</b>	<b>75.0</b>	<b>65.9</b>	<b>—</b>	<b>71.3</b>
<b>1996</b>												
January .....	76.3	76.0	70.4	61.4	W	65.6	84.0	83.8	76.0	64.8	—	72.0
February .....	77.6	77.4	72.3	64.4	—	68.2	85.7	85.7	78.4	67.4	—	74.2
March .....	84.7	84.4	79.5	72.2	W	75.8	90.8	90.8	85.3	74.5	—	81.4
April .....	94.0	93.6	87.2	76.1	—	80.0	101.6	101.6	93.6	77.3	—	86.2
May .....	99.1	98.6	94.3	76.1	—	82.3	108.1	107.9	99.8	77.3	—	88.1
June .....	97.9	97.5	NA	76.5	—	82.3	105.7	105.7	98.3	77.4	—	87.6
July .....	95.8	95.4	NA	75.0	—	80.6	103.7	103.6	96.5	76.0	—	85.9
August .....	97.2	96.8	NA	78.1	—	83.2	104.3	104.3	NA	79.8	—	87.9
September .....	97.8	97.3	88.4	79.7	—	83.2	104.5	104.4	94.1	82.5	—	88.4
October .....	93.4	93.1	85.4	78.4	—	82.0	102.0	101.9	90.9	82.3	—	87.8
November .....	91.7	91.5	80.8	78.0	—	79.3	102.1	102.0	86.3	81.3	—	84.0
December .....	88.1	87.9	77.0	75.3	—	76.1	99.2	99.2	82.6	78.6	—	80.8
<b>1996</b> .....	<b>87.0</b>	<b>86.7</b>	<b>78.4</b>	<b>71.8</b>	<b>W</b>	<b>74.6</b>	<b>94.0</b>	<b>93.9</b>	<b>83.2</b>	<b>73.8</b>	<b>—</b>	<b>79.3</b>
<b>1997</b>												
January .....	88.7	88.6	80.0	77.2	—	78.3	99.7	99.7	W	80.3	—	82.7
February .....	91.3	91.1	85.0	77.7	—	80.7	100.9	100.9	W	80.7	—	85.0
March .....	92.4	92.1	86.4	75.4	—	80.4	100.7	100.7	90.9	76.7	—	85.5
April .....	88.7	88.4	82.1	69.4	—	72.3	95.5	95.5	W	70.4	—	75.8
May .....	89.3	89.2	82.5	75.4	—	78.0	96.8	96.8	W	76.2	—	82.1
June .....	88.0	87.8	80.1	71.6	—	74.7	96.0	95.9	W	72.9	—	78.0
July .....	85.0	84.9	75.1	71.1	—	72.5	93.2	93.2	W	72.9	—	76.4
August .....	87.6	87.5	79.9	77.7	—	78.4	96.5	96.4	W	79.5	—	81.8
September .....	91.5	91.3	85.4	75.0	—	78.6	100.0	100.0	W	78.7	—	82.9
October .....	90.2	89.9	84.6	71.8	—	76.0	98.7	98.6	W	74.6	—	79.7
November .....	87.7	87.5	81.7	70.1	—	74.2	97.8	97.8	W	73.2	—	78.6
December .....	83.5	83.4	76.5	64.7	—	68.8	94.7	94.7	W	68.0	—	74.0
<b>1997</b> .....	<b>88.6</b>	<b>88.4</b>	<b>81.6</b>	<b>72.5</b>	<b>—</b>	<b>75.8</b>	<b>98.0</b>	<b>98.0</b>	<b>86.6</b>	<b>75.0</b>	<b>—</b>	<b>80.1</b>
<b>1998</b>												
January .....	78.4	78.3	71.3	59.2	—	63.4	89.1	89.1	76.9	61.0	—	66.9
February .....	70.8	70.7	64.1	57.7	—	60.0	81.0	81.0	70.4	59.7	—	63.6
March .....	65.7	65.6	56.3	55.8	—	56.0	75.8	75.8	63.1	57.1	—	59.6
April .....	66.6	66.6	58.8	57.2	—	57.8	76.0	76.0	W	58.2	—	60.3
May .....	71.7	71.6	64.4	60.4	—	61.8	80.2	80.2	W	61.3	—	64.4
June .....	73.6	73.5	64.7	59.2	—	60.9	82.3	82.3	W	60.3	—	63.4
July .....	72.3	72.2	63.9	58.5	—	60.3	81.2	81.2	W	59.5	—	62.7
August .....	68.4	68.3	61.4	53.6	W	56.4	77.1	77.1	W	W	—	58.9
September .....	67.5	67.4	61.0	53.8	—	56.6	76.5	76.5	W	55.2	—	59.3
October .....	69.6	69.4	59.6	53.9	—	55.9	78.4	78.4	67.3	55.9	—	59.8

See footnotes at end of table.

**Table 10. U.S. Refiner Oxygenated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>92.9</b>	<b>92.4</b>	<b>79.9</b>	<b>67.5</b>	<b>56.7</b>	<b>76.5</b>	<b>79.3</b>	<b>78.8</b>	<b>71.5</b>	<b>60.7</b>	<b>53.5</b>	<b>67.5</b>
<b>1995</b> .....	<b>94.6</b>	<b>94.3</b>	<b>84.7</b>	<b>72.4</b>	<b>W</b>	<b>79.1</b>	<b>80.4</b>	<b>80.2</b>	<b>74.2</b>	<b>64.7</b>	<b>59.5</b>	<b>69.1</b>
<b>1996</b>												
January .....	95.4	95.1	84.1	71.7	57.7	78.8	80.6	80.4	73.9	63.2	W	68.7
February .....	97.1	97.0	86.6	73.8	—	81.2	82.0	81.8	75.6	66.0	—	70.9
March .....	103.0	102.6	93.0	79.7	W	87.6	88.2	87.9	82.6	73.3	W	78.2
April .....	111.4	111.2	101.6	84.6	—	91.9	97.0	96.6	90.2	77.1	—	82.2
May .....	117.2	117.1	108.5	84.0	—	92.5	101.9	101.5	96.8	77.2	—	84.1
June .....	114.5	114.4	NA	83.1	—	91.6	100.3	100.0	NA	77.4	—	84.1
July .....	111.9	111.9	NA	81.7	—	89.4	98.3	97.9	NA	76.0	—	82.4
August .....	111.8	111.7	NA	84.1	—	91.3	99.5	99.2	NA	79.1	—	84.8
September .....	111.9	111.2	101.8	86.8	—	93.5	100.3	99.8	91.0	80.8	—	85.1
October .....	110.1	109.8	98.3	86.9	—	93.8	96.8	96.5	88.1	79.7	—	84.2
November .....	110.1	109.8	94.2	86.1	—	90.4	95.5	95.2	83.4	79.3	—	81.4
December .....	107.1	106.9	90.3	83.7	—	87.2	91.9	91.8	79.7	76.7	—	78.1
<b>1996</b> .....	<b>103.7</b>	<b>103.5</b>	<b>90.7</b>	<b>80.0</b>	<b>58.3</b>	<b>85.5</b>	<b>90.2</b>	<b>90.0</b>	<b>81.1</b>	<b>73.1</b>	<b>W</b>	<b>76.8</b>
<b>1997</b>												
January .....	108.5	108.3	93.2	W	—	89.1	92.8	92.6	82.5	78.5	—	80.2
February .....	110.9	110.6	98.1	W	—	91.9	94.9	94.7	87.4	79.0	—	82.6
March .....	111.0	110.6	100.2	82.6	—	92.5	95.5	95.2	89.1	76.3	—	82.5
April .....	104.2	104.2	94.7	W	—	79.9	91.1	90.9	84.0	70.1	—	73.5
May .....	105.5	105.5	98.4	W	—	86.6	91.7	91.6	84.7	76.0	—	79.3
June .....	104.7	104.7	93.2	W	—	82.2	90.4	90.3	81.9	72.3	—	75.8
July .....	101.8	101.8	88.5	W	—	79.6	87.6	87.5	77.0	71.9	—	73.7
August .....	105.1	104.9	92.6	W	—	85.7	90.3	90.1	81.6	78.4	—	79.5
September .....	108.5	108.1	97.7	W	—	87.4	94.0	93.7	87.2	76.2	—	80.1
October .....	107.7	107.2	97.5	W	—	87.0	92.9	92.6	86.7	73.0	—	77.6
November .....	107.3	107.0	95.0	W	—	85.7	91.4	91.1	84.0	71.5	—	76.0
December .....	104.1	104.1	90.3	W	—	80.5	87.5	87.3	79.0	66.0	—	70.8
<b>1997</b> .....	<b>107.3</b>	<b>107.1</b>	<b>95.1</b>	<b>80.5</b>	<b>—</b>	<b>86.4</b>	<b>91.8</b>	<b>91.6</b>	<b>84.0</b>	<b>73.6</b>	<b>—</b>	<b>77.5</b>
<b>1998</b>												
January .....	98.7	98.7	85.3	67.7	—	74.5	82.3	82.2	73.9	60.4	—	65.2
February .....	90.8	90.7	78.5	66.0	—	71.1	74.4	74.3	66.8	58.8	—	61.7
March .....	84.5	84.5	70.8	62.9	—	66.9	68.4	68.4	59.1	56.7	—	57.7
April .....	85.1	85.1	75.1	W	—	67.7	69.3	69.3	61.3	57.8	—	59.0
May .....	89.2	89.2	80.6	W	—	71.8	74.3	74.2	67.0	61.0	—	63.0
June .....	90.9	90.9	79.6	W	—	69.7	76.1	76.0	67.1	59.8	—	62.0
July .....	89.0	89.0	78.5	W	—	70.3	74.8	74.7	66.4	59.1	—	61.6
August .....	84.8	84.8	75.5	59.4	—	66.8	70.9	70.7	64.0	54.2	W	57.8
September .....	85.3	85.3	75.8	W	—	68.1	70.2	70.1	63.9	54.7	—	58.3
October .....	87.4	87.3	NA	62.2	—	67.8	72.7	72.5	63.2	55.1	—	58.0

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 11. U.S. Refiner Oxygenated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>4.0</b>	<b>4.1</b>	<b>9.4</b>	<b>5.2</b>	<b>0.9</b>	<b>15.5</b>	<b>0.7</b>	<b>0.7</b>	<b>2.1</b>	<b>0.8</b>	<b>W</b>	<b>2.9</b>
<b>1995</b> .....	<b>2.5</b>	<b>2.5</b>	<b>3.8</b>	<b>W</b>	<b>W</b>	<b>8.1</b>	<b>0.5</b>	<b>0.5</b>	<b>0.8</b>	<b>0.5</b>	<b>–</b>	<b>1.3</b>
<b>1996</b>												
January .....	5.5	5.6	8.6	7.6	W	17.0	1.6	1.6	2.2	1.2	–	3.5
February .....	4.2	4.3	4.2	4.5	–	8.7	1.1	1.1	1.0	0.6	–	1.6
March .....	2.1	2.2	1.8	1.8	W	3.7	0.5	0.5	0.4	0.2	–	0.6
April .....	1.2	1.2	0.7	1.3	–	2.1	0.2	0.2	0.2	0.1	–	0.3
May .....	1.0	1.0	0.7	1.5	–	2.2	0.2	0.2	0.1	0.2	–	0.3
June .....	1.1	1.1	NA	1.5	–	2.3	0.2	0.2	0.2	0.2	–	0.3
July .....	1.1	1.1	NA	1.5	–	2.3	0.2	0.2	0.2	0.2	–	0.3
August .....	1.0	1.0	NA	1.6	–	2.4	0.2	0.2	NA	0.2	–	0.3
September .....	1.0	1.0	1.3	1.9	–	3.1	0.2	0.2	0.2	0.2	–	0.5
October .....	2.4	2.4	3.3	3.1	–	6.4	0.5	0.5	0.6	0.3	–	0.9
November .....	4.0	4.1	4.0	4.3	–	8.4	0.9	0.9	0.7	0.6	–	1.2
December .....	4.4	4.5	4.0	4.5	–	8.5	0.9	0.9	0.7	0.5	–	1.2
<b>1996</b> .....	<b>2.4</b>	<b>2.5</b>	<b>2.6</b>	<b>2.9</b>	<b>W</b>	<b>5.6</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>–</b>	<b>0.9</b>
<b>1997</b>												
January .....	3.7	3.7	2.9	4.5	–	7.4	0.8	0.8	W	0.5	–	1.1
February .....	3.6	3.7	2.9	4.2	–	7.1	0.7	0.7	W	0.5	–	1.0
March .....	2.1	2.1	1.9	2.3	–	4.1	0.4	0.4	0.4	0.2	–	0.6
April .....	0.9	0.9	0.5	1.6	–	2.1	0.2	0.2	W	0.2	–	0.3
May .....	1.3	1.4	1.0	1.7	–	2.7	0.2	0.2	W	0.2	–	0.3
June .....	1.5	1.6	1.0	1.8	–	2.8	0.3	0.3	W	0.2	–	0.4
July .....	1.3	1.4	1.0	1.8	–	2.8	0.2	0.2	W	0.2	–	0.4
August .....	1.3	1.4	1.0	1.9	–	2.8	0.2	0.2	W	0.2	–	0.4
September .....	1.6	1.6	1.3	2.4	–	3.7	0.2	0.2	W	0.4	–	0.6
October .....	2.1	2.2	2.0	4.2	–	6.3	0.4	0.4	W	0.7	–	1.1
November .....	3.1	3.2	2.9	5.3	–	8.2	0.7	0.7	W	0.8	–	1.3
December .....	3.4	3.4	3.0	5.6	–	8.6	0.7	0.7	W	0.8	–	1.3
<b>1997</b> .....	<b>2.2</b>	<b>2.2</b>	<b>1.8</b>	<b>3.1</b>	<b>–</b>	<b>4.9</b>	<b>0.4</b>	<b>0.4</b>	<b>0.3</b>	<b>0.4</b>	<b>–</b>	<b>0.7</b>
<b>1998</b>												
January .....	3.0	3.0	2.8	5.3	–	8.1	0.7	0.7	W	W	–	1.4
February .....	2.9	2.9	2.7	5.0	–	7.7	0.6	0.6	W	W	–	1.3
March .....	2.3	2.4	2.4	3.1	–	5.5	0.3	0.3	W	W	–	1.0
April .....	1.7	1.7	1.5	2.9	–	4.3	0.3	0.3	W	W	–	0.8
May .....	1.6	1.6	1.4	2.8	–	4.2	0.2	0.2	W	W	–	0.8
June .....	1.6	1.6	1.5	3.3	–	4.8	0.2	0.2	W	W	–	0.8
July .....	1.5	1.6	1.5	3.0	–	4.6	0.2	0.2	W	W	–	0.8
August .....	1.5	1.5	1.6	W	W	4.3	0.2	0.2	W	W	–	0.8
September .....	1.6	1.6	2.0	3.1	–	5.2	0.3	0.3	W	W	–	1.0
October .....	1.6	1.6	2.3	4.4	–	6.7	0.3	0.3	0.4	0.8	–	1.2

See footnotes at end of table.

**Table 11. U.S. Refiner Oxygenated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>1.2</b>	<b>1.2</b>	<b>5.0</b>	<b>1.4</b>	<b>0.2</b>	<b>6.6</b>	<b>5.9</b>	<b>6.1</b>	<b>16.5</b>	<b>7.4</b>	<b>1.1</b>	<b>25.0</b>
<b>1995</b> .....	<b>0.5</b>	<b>0.5</b>	<b>1.1</b>	<b>W</b>	<b>W</b>	<b>1.9</b>	<b>3.5</b>	<b>3.6</b>	<b>5.7</b>	<b>5.1</b>	<b>0.6</b>	<b>11.3</b>
<b>1996</b>												
January .....	1.3	1.3	2.6	1.4	0.2	4.2	8.3	8.5	13.5	10.2	W	24.7
February .....	0.9	0.9	1.1	0.8	—	1.8	6.3	6.3	6.2	5.9	—	12.1
March .....	0.4	0.4	0.4	0.3	W	0.7	3.0	3.0	2.6	2.3	W	5.0
April .....	0.2	0.2	0.1	0.2	—	0.3	1.6	1.6	1.0	1.7	—	2.7
May .....	0.1	0.1	0.1	0.2	—	0.3	1.3	1.3	1.0	1.8	—	2.8
June .....	0.1	0.1	NA	0.2	—	0.4	1.4	1.4	NA	1.9	—	2.9
July .....	0.1	0.1	NA	0.3	—	0.4	1.4	1.4	NA	2.0	—	3.0
August .....	0.1	0.1	NA	0.3	—	0.4	1.2	1.3	NA	2.1	—	3.2
September .....	0.1	0.2	0.2	0.3	—	0.5	1.3	1.4	1.8	2.4	—	4.1
October .....	0.4	0.4	0.7	0.5	—	1.2	3.3	3.3	4.6	3.9	—	8.5
November .....	0.6	0.7	0.8	0.7	—	1.5	5.5	5.6	5.5	5.6	—	11.1
December .....	0.7	0.7	0.8	0.7	—	1.6	6.1	6.1	5.6	5.7	—	11.3
<b>1996</b> .....	<b>0.4</b>	<b>0.4</b>	<b>0.6</b>	<b>0.5</b>	<b>0.0</b>	<b>1.1</b>	<b>3.4</b>	<b>3.4</b>	<b>3.7</b>	<b>3.8</b>	<b>W</b>	<b>7.6</b>
<b>1997</b>												
January .....	0.6	0.6	0.6	W	—	1.3	5.1	5.2	4.1	5.7	—	9.8
February .....	0.5	0.5	0.6	W	—	1.2	4.9	5.0	4.0	5.3	—	9.3
March .....	0.3	0.3	0.4	0.3	—	0.7	2.7	2.8	2.6	2.8	—	5.4
April .....	0.1	0.1	0.1	W	—	0.3	1.2	1.2	0.7	2.0	—	2.7
May .....	0.1	0.1	0.1	W	—	0.3	1.7	1.7	1.3	2.1	—	3.4
June .....	0.2	0.2	0.1	W	—	0.4	2.0	2.0	1.3	2.3	—	3.6
July .....	0.2	0.2	0.1	W	—	0.4	1.7	1.7	1.3	2.3	—	3.6
August .....	0.1	0.1	0.1	W	—	0.4	1.7	1.7	1.3	2.4	—	3.6
September .....	0.2	0.2	0.2	W	—	0.5	2.0	2.1	1.7	3.1	—	4.8
October .....	0.3	0.3	0.3	W	—	0.8	2.8	2.8	2.7	5.5	—	8.2
November .....	0.4	0.4	0.5	W	—	1.2	4.2	4.3	3.9	6.8	—	10.7
December .....	0.5	0.5	0.5	W	—	1.3	4.6	4.6	4.1	7.1	—	11.2
<b>1997</b> .....	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.4</b>	<b>—</b>	<b>0.7</b>	<b>2.9</b>	<b>2.9</b>	<b>2.4</b>	<b>3.9</b>	<b>—</b>	<b>6.3</b>
<b>1998</b>												
January .....	0.4	0.4	W	W	—	1.3	4.1	4.2	3.8	6.9	—	10.7
February .....	0.4	0.4	W	W	—	1.2	3.8	3.8	3.7	6.5	—	10.2
March .....	0.2	0.2	W	W	—	0.8	2.9	2.9	3.2	4.1	—	7.4
April .....	0.2	0.2	W	W	—	0.5	2.1	2.1	1.9	3.8	—	5.6
May .....	0.2	0.2	W	W	—	0.5	2.0	2.0	1.8	3.7	—	5.5
June .....	0.2	0.2	W	W	—	0.6	2.0	2.0	1.9	4.3	—	6.2
July .....	0.2	0.2	W	W	—	0.5	1.9	2.0	2.0	3.9	—	5.9
August .....	0.2	0.2	0.3	0.3	—	0.5	1.9	1.9	W	3.6	W	5.6
September .....	0.2	0.2	W	W	—	0.8	2.1	2.1	2.7	4.2	—	6.9
October .....	0.2	0.2	NA	0.7	—	1.2	2.1	2.1	3.2	5.9	—	9.1

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 12. U.S. Refiner Reformulated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>76.4</b>	<b>75.8</b>	<b>72.0</b>	<b>56.9</b>	<b>54.3</b>	<b>63.8</b>	<b>87.9</b>	<b>87.3</b>	<b>77.0</b>	<b>62.8</b>	<b>W</b>	<b>72.8</b>
<b>1995</b> .....	<b>74.9</b>	<b>74.4</b>	<b>70.7</b>	<b>60.5</b>	<b>57.3</b>	<b>65.0</b>	<b>83.6</b>	<b>83.3</b>	<b>75.3</b>	<b>65.1</b>	<b>–</b>	<b>72.3</b>
<b>1996</b>												
January .....	71.4	71.0	67.6	59.2	56.0	63.1	80.9	80.6	72.3	63.8	–	69.9
February .....	72.2	71.7	67.8	59.8	56.8	63.2	81.3	81.0	73.1	64.2	–	70.5
March .....	76.7	76.3	72.0	65.8	65.5	68.8	86.0	85.7	77.9	70.0	–	75.6
April .....	87.7	87.3	83.5	77.0	77.3	80.2	96.5	96.2	88.8	81.4	–	86.7
May .....	95.7	95.3	91.7	77.0	74.8	83.4	105.1	104.7	96.8	81.4	–	92.2
June .....	93.5	92.9	89.1	70.5	68.0	78.9	103.0	102.4	94.0	75.1	–	88.3
July .....	88.8	88.4	85.3	70.7	68.7	77.3	98.6	98.3	90.3	75.2	–	85.6
August .....	84.3	84.0	79.9	68.9	65.2	73.4	94.0	93.7	85.1	73.4	W	81.5
September .....	81.4	81.1	76.8	69.5	66.5	72.6	91.0	90.8	82.3	73.8	W	79.8
October .....	80.2	79.9	74.7	70.4	66.5	72.1	90.2	89.9	80.5	74.8	W	78.8
November .....	80.0	79.7	73.5	71.6	65.2	71.6	89.7	89.4	79.6	75.9	W	78.5
December .....	80.0	79.7	74.7	71.8	69.4	72.8	89.8	89.5	80.5	76.3	W	79.2
<b>1996</b> .....	<b>83.4</b>	<b>83.0</b>	<b>78.8</b>	<b>69.8</b>	<b>67.7</b>	<b>73.8</b>	<b>92.4</b>	<b>92.1</b>	<b>83.7</b>	<b>74.1</b>	<b>W</b>	<b>80.9</b>
<b>1997</b>												
January .....	82.4	82.1	77.1	74.3	73.6	75.6	92.1	91.8	82.7	78.1	W	81.4
February .....	82.9	82.6	77.8	71.2	72.9	74.8	92.6	92.4	83.1	75.2	W	81.0
March .....	82.1	81.9	78.4	69.9	73.4	74.6	91.8	91.7	83.7	74.0	W	81.0
April .....	83.0	82.8	80.5	68.0	69.0	74.4	92.5	92.4	85.1	72.3	W	81.5
May .....	82.8	82.5	78.3	68.4	63.7	72.5	92.5	92.2	83.8	72.6	W	80.6
June .....	81.1	80.7	76.4	64.1	58.3	69.4	91.1	90.7	81.9	68.5	W	78.0
July .....	79.6	79.2	73.9	64.8	59.4	68.6	89.6	89.2	79.5	69.1	W	76.4
August .....	84.9	84.7	81.3	74.3	72.2	77.3	95.0	94.7	87.1	78.5	W	84.5
September .....	88.2	87.9	85.0	71.6	72.5	78.3	98.1	97.9	90.4	75.9	W	86.2
October .....	86.4	86.1	82.2	67.4	67.9	74.5	96.0	95.8	87.4	71.7	W	82.9
November .....	83.1	82.8	78.6	64.3	60.5	71.0	92.7	92.5	83.7	68.6	W	79.4
December .....	79.4	79.1	74.5	60.7	58.7	67.0	89.3	89.1	79.7	65.2	W	75.5
<b>1997</b> .....	<b>83.0</b>	<b>82.8</b>	<b>78.7</b>	<b>68.2</b>	<b>66.8</b>	<b>73.1</b>	<b>92.8</b>	<b>92.5</b>	<b>84.0</b>	<b>72.5</b>	<b>W</b>	<b>80.7</b>
<b>1998</b>												
January .....	74.3	74.1	69.5	56.6	55.4	62.7	83.1	82.9	74.8	60.8	W	70.8
February .....	67.6	67.4	62.6	53.8	52.4	57.9	77.8	77.7	68.0	57.9	W	65.1
March .....	62.7	62.5	57.5	50.9	49.9	54.1	72.9	72.7	63.1	55.0	W	60.8
April .....	65.3	65.1	59.9	54.6	54.5	57.2	75.0	74.9	65.5	58.8	W	63.6
May .....	70.6	70.4	65.7	57.2	53.5	60.7	80.0	79.9	71.2	61.6	W	68.4
June .....	69.3	69.1	64.7	53.5	49.7	58.4	79.2	79.0	70.3	58.2	W	66.6
July .....	68.0	67.8	62.8	51.8	47.8	56.2	78.3	78.2	68.7	56.4	W	64.9
August .....	66.5	66.2	60.7	47.9	W	53.8	76.9	76.7	66.4	W	W	62.1
September .....	65.0	64.7	59.4	49.0	46.0	53.4	75.4	75.2	65.2	53.3	W	61.6
October .....	65.2	64.9	59.8	50.3	47.4	54.4	75.5	75.3	65.7	54.6	NA	62.4

See footnotes at end of table.

**Table 12. U.S. Refiner Reformulated Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>1994</b> .....	<b>96.6</b>	<b>95.8</b>	<b>86.1</b>	<b>67.7</b>	<b>55.8</b>	<b>77.7</b>	<b>83.1</b>	<b>82.4</b>	<b>77.1</b>	<b>59.9</b>	<b>54.7</b>	<b>68.7</b>
<b>1995</b> .....	<b>92.9</b>	<b>92.4</b>	<b>84.1</b>	<b>70.4</b>	<b>61.6</b>	<b>78.5</b>	<b>80.8</b>	<b>80.3</b>	<b>75.6</b>	<b>63.2</b>	<b>58.2</b>	<b>69.6</b>
<b>1996</b>												
January .....	89.9	89.5	80.6	69.3	61.4	76.1	77.5	77.1	72.4	61.9	57.2	67.5
February .....	90.3	89.8	81.2	69.4	62.1	76.4	78.2	77.7	72.8	62.4	57.8	67.6
March .....	94.6	94.1	85.5	75.1	69.4	81.3	82.5	82.0	76.9	68.2	66.2	72.9
April .....	104.8	104.3	95.7	85.9	80.2	91.7	92.7	92.2	87.7	79.2	77.8	83.7
May .....	111.6	110.9	103.0	86.0	77.4	95.6	100.1	99.6	95.1	79.0	75.2	86.9
June .....	109.6	108.9	100.4	79.1	68.9	90.6	98.0	97.3	92.6	72.5	68.1	82.6
July .....	105.6	105.1	96.9	79.8	70.8	89.5	93.5	93.1	89.0	72.9	69.0	81.0
August .....	101.4	101.0	92.3	78.5	69.1	86.4	89.1	88.8	83.9	71.1	65.7	77.2
September .....	99.2	98.8	89.8	79.3	70.3	85.0	86.3	86.0	81.0	71.7	67.2	76.2
October .....	98.7	98.3	88.9	80.6	71.4	85.2	85.2	84.8	79.2	72.7	67.3	75.8
November .....	98.8	98.3	88.6	82.6	70.8	85.7	85.0	84.6	78.3	74.0	66.0	75.5
December .....	99.2	98.8	89.1	82.9	75.0	86.1	85.0	84.6	79.2	74.2	70.1	76.3
<b>1996</b> .....	<b>100.2</b>	<b>99.8</b>	<b>91.0</b>	<b>79.1</b>	<b>70.9</b>	<b>85.9</b>	<b>88.2</b>	<b>87.8</b>	<b>82.8</b>	<b>72.0</b>	<b>68.2</b>	<b>77.4</b>
<b>1997</b>												
January .....	101.1	100.7	91.3	W	76.5	88.4	87.3	87.0	81.5	76.4	74.0	79.0
February .....	101.0	100.7	91.1	W	74.2	87.3	87.6	87.3	81.9	73.2	73.1	78.1
March .....	100.0	99.6	91.1	W	71.7	86.1	86.8	86.6	82.4	71.8	73.1	77.8
April .....	100.0	100.1	91.9	W	69.5	86.0	87.5	87.5	84.0	70.1	69.1	77.8
May .....	99.5	99.3	90.3	W	70.1	85.1	87.4	87.2	82.2	70.6	64.7	76.3
June .....	98.6	97.9	88.9	W	64.9	82.6	86.0	85.6	80.5	66.4	59.5	73.4
July .....	97.6	96.9	86.8	W	64.3	81.5	84.4	84.1	78.1	67.1	60.3	72.4
August .....	103.0	102.8	94.3	W	78.1	90.1	89.6	89.5	85.4	76.6	73.1	80.9
September .....	105.9	106.0	97.1	W	75.2	90.7	92.7	92.6	88.7	73.7	73.0	81.8
October .....	103.2	102.9	93.7	W	67.6	85.8	90.7	90.4	85.8	69.4	67.8	77.9
November .....	100.1	99.8	90.3	W	62.4	82.3	87.5	87.2	82.3	66.2	61.0	74.5
December .....	96.8	96.6	86.5	W	60.3	79.0	83.9	83.6	78.2	62.6	59.0	70.6
<b>1997</b> .....	<b>100.5</b>	<b>100.3</b>	<b>91.0</b>	<b>77.5</b>	<b>68.6</b>	<b>85.3</b>	<b>87.6</b>	<b>87.4</b>	<b>82.5</b>	<b>70.3</b>	<b>67.1</b>	<b>76.7</b>
<b>1998</b>												
January .....	91.2	91.0	81.6	65.2	58.8	75.5	78.7	78.5	73.3	58.5	55.8	66.3
February .....	85.8	85.6	75.3	62.3	53.2	70.2	72.4	72.2	66.6	55.7	52.5	61.4
March .....	81.2	81.0	70.7	59.7	50.8	65.8	67.6	67.4	61.7	52.9	50.1	57.5
April .....	83.0	82.8	72.8	W	58.1	68.7	69.9	69.7	63.9	56.6	55.2	60.4
May .....	87.5	87.3	77.6	W	57.4	72.3	75.1	74.8	69.5	59.2	54.2	64.0
June .....	86.8	86.6	76.8	W	54.3	71.1	74.0	73.7	68.5	55.6	50.3	62.1
July .....	86.8	86.6	75.3	W	52.1	69.5	73.0	72.8	66.9	54.0	48.2	60.0
August .....	84.6	84.4	W	57.5	49.4	66.6	71.5	71.2	64.8	50.2	W	57.6
September .....	83.2	83.0	72.1	W	48.8	65.5	70.0	69.6	63.5	51.2	46.5	57.0
October .....	83.7	83.4	72.8	59.5	50.7	66.7	70.3	70.0	64.1	52.4	48.1	58.1

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 13. U.S. Refiner Reformulated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>0.6</b>	<b>0.6</b>	<b>2.1</b>	<b>1.6</b>	<b>0.6</b>	<b>4.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.7</b>	<b>0.3</b>	<b>W</b>	<b>1.0</b>
<b>1995</b> .....	<b>7.8</b>	<b>8.1</b>	<b>20.7</b>	<b>W</b>	<b>W</b>	<b>43.3</b>	<b>3.0</b>	<b>3.1</b>	<b>7.4</b>	<b>3.1</b>	<b>–</b>	<b>10.5</b>
<b>1996</b>												
January .....	7.5	7.8	19.3	15.7	3.8	38.7	2.9	3.0	7.0	2.7	–	9.7
February .....	7.7	8.0	20.3	16.9	5.9	43.1	3.0	3.0	7.4	3.0	–	10.4
March .....	8.4	8.7	21.7	17.3	5.6	44.7	3.1	3.2	7.5	3.0	–	10.5
April .....	9.8	10.2	25.8	20.0	7.9	53.7	3.3	3.3	8.1	3.4	–	11.4
May .....	11.3	11.7	28.9	22.2	11.1	62.3	3.3	3.3	8.2	3.5	–	11.6
June .....	11.7	12.1	28.6	23.0	8.9	60.4	3.4	3.5	8.2	3.6	–	11.8
July .....	11.4	12.0	27.8	22.0	9.1	58.9	3.3	3.4	8.1	3.6	–	11.7
August .....	11.4	12.0	28.3	22.7	10.1	61.1	3.4	3.5	8.2	3.6	W	11.9
September .....	11.6	12.1	27.6	21.2	8.7	57.5	3.4	3.5	8.0	3.3	W	11.4
October .....	12.2	12.7	28.3	21.3	6.9	56.5	3.5	3.6	8.2	3.3	W	11.6
November .....	12.1	12.6	28.2	21.6	8.4	58.3	3.5	3.6	8.3	3.3	W	11.6
December .....	12.6	13.1	27.9	22.0	9.6	59.5	3.6	3.7	8.2	3.3	W	11.6
<b>1996</b> .....	<b>10.7</b>	<b>11.1</b>	<b>26.1</b>	<b>20.5</b>	<b>8.0</b>	<b>54.6</b>	<b>3.3</b>	<b>3.4</b>	<b>7.9</b>	<b>3.3</b>	<b>W</b>	<b>11.3</b>
<b>1997</b>												
January .....	11.3	11.8	27.2	19.8	7.3	54.3	3.2	3.3	7.9	3.0	W	10.8
February .....	12.1	12.6	28.3	20.7	6.9	55.9	3.3	3.4	8.1	3.0	W	11.1
March .....	12.4	12.9	28.4	21.2	7.4	57.0	3.4	3.5	8.0	3.1	W	11.1
April .....	12.4	12.8	29.0	21.1	7.0	57.1	3.4	3.5	7.9	3.0	W	11.0
May .....	12.0	12.4	27.3	21.1	7.9	56.3	3.3	3.4	7.9	3.1	W	11.1
June .....	12.2	12.6	27.4	21.5	7.0	56.0	3.4	3.5	7.9	3.2	W	11.1
July .....	14.0	14.4	27.5	22.7	6.8	57.0	3.8	3.9	8.0	3.4	W	11.5
August .....	14.8	15.1	28.1	23.2	8.5	59.8	3.9	4.0	8.0	3.4	W	11.5
September .....	14.7	15.1	27.7	22.0	7.3	57.0	3.7	3.8	7.7	3.1	W	10.8
October .....	14.9	15.3	28.0	22.4	8.7	59.1	3.7	3.8	7.7	3.1	W	10.9
November .....	14.3	14.6	28.7	21.8	6.9	57.4	3.6	3.7	7.7	3.0	W	10.7
December .....	15.6	15.9	29.0	22.6	8.8	60.3	4.0	4.0	7.7	3.1	W	10.9
<b>1997</b> .....	<b>13.4</b>	<b>13.8</b>	<b>28.0</b>	<b>21.7</b>	<b>7.6</b>	<b>57.3</b>	<b>3.6</b>	<b>3.7</b>	<b>7.9</b>	<b>3.1</b>	<b>W</b>	<b>11.0</b>
<b>1998</b>												
January .....	13.6	13.8	27.4	20.9	8.2	56.5	3.7	3.7	7.2	W	W	10.0
February .....	14.4	14.6	28.4	21.9	7.4	57.7	3.6	3.6	7.3	W	W	10.3
March .....	14.6	14.8	29.1	22.5	6.8	58.4	3.6	3.7	7.4	W	W	10.4
April .....	15.0	15.2	29.7	22.8	8.6	61.2	3.7	3.7	7.5	W	W	10.5
May .....	14.9	15.2	29.9	23.5	9.8	63.1	3.8	3.8	7.5	W	W	10.6
June .....	15.3	15.6	30.3	24.2	8.2	62.7	3.9	3.9	7.6	W	W	10.9
July .....	15.8	16.0	29.5	24.3	10.6	64.5	4.1	4.1	7.6	W	W	11.0
August .....	15.4	15.6	29.2	W	W	61.4	4.0	4.0	7.5	W	W	10.9
September .....	15.4	15.7	28.6	23.6	9.3	61.5	4.0	4.0	7.4	W	W	10.5
October .....	14.3	14.6	28.5	23.6	8.5	60.5	3.9	3.9	7.4	3.1	NA	10.6

See footnotes at end of table.

**Table 13. U.S. Refiner Reformulated Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>1994</b> .....	<b>0.2</b>	<b>0.2</b>	<b>1.2</b>	<b>0.5</b>	<b>0.2</b>	<b>1.9</b>	<b>1.0</b>	<b>1.0</b>	<b>4.0</b>	<b>2.4</b>	<b>0.8</b>	<b>7.2</b>
<b>1995</b> .....	<b>3.1</b>	<b>3.2</b>	<b>12.0</b>	<b>W</b>	<b>W</b>	<b>18.9</b>	<b>14.0</b>	<b>14.4</b>	<b>40.1</b>	<b>25.9</b>	<b>6.6</b>	<b>72.6</b>
<b>1996</b>												
January .....	3.0	3.1	11.2	5.1	1.1	17.4	13.5	13.8	37.5	23.5	4.8	65.8
February .....	3.1	3.1	11.8	5.4	1.3	18.6	13.8	14.1	39.5	25.4	7.2	72.1
March .....	3.1	3.1	11.8	5.4	1.2	18.4	14.6	15.0	41.0	25.7	6.9	73.5
April .....	3.0	3.1	12.1	5.4	1.5	19.1	16.1	16.6	46.0	28.8	9.5	84.2
May .....	2.8	2.9	11.0	5.1	1.7	17.9	17.4	17.9	48.1	30.8	12.8	91.8
June .....	3.0	3.1	11.6	5.5	2.3	19.3	18.1	18.6	48.4	32.0	11.2	91.5
July .....	3.1	3.2	11.5	5.6	1.6	18.7	17.8	18.6	47.4	31.2	10.7	89.3
August .....	3.2	3.3	12.0	5.7	1.5	19.2	18.0	18.8	48.6	32.1	11.6	92.3
September .....	3.2	3.3	11.9	5.2	1.9	19.0	18.2	18.9	47.5	29.7	10.6	87.8
October .....	3.2	3.3	12.0	5.3	1.4	18.7	18.8	19.6	48.5	30.0	8.3	86.8
November .....	3.2	3.3	12.0	5.2	1.3	18.5	18.8	19.5	48.5	30.1	9.8	88.4
December .....	3.2	3.3	11.6	5.2	1.6	18.4	19.4	20.2	47.6	30.5	11.3	89.4
<b>1996</b> .....	<b>3.1</b>	<b>3.2</b>	<b>11.7</b>	<b>5.3</b>	<b>1.5</b>	<b>18.6</b>	<b>17.0</b>	<b>17.6</b>	<b>45.7</b>	<b>29.2</b>	<b>9.6</b>	<b>84.5</b>
<b>1997</b>												
January .....	2.9	3.0	11.1	W	1.0	16.9	17.5	18.2	46.2	27.5	8.3	82.0
February .....	3.0	3.1	11.5	W	0.8	17.1	18.4	19.1	47.9	28.5	7.8	84.2
March .....	3.1	3.2	11.6	W	1.5	18.2	18.9	19.7	48.0	29.3	8.9	86.2
April .....	3.2	3.4	11.7	W	1.4	18.2	19.0	19.8	48.6	29.3	8.4	86.3
May .....	3.2	3.4	11.5	W	1.5	18.4	18.5	19.2	46.7	29.6	9.5	85.8
June .....	3.4	3.6	11.8	W	1.6	18.8	18.9	19.6	47.1	30.1	8.7	86.0
July .....	3.7	4.0	11.8	W	1.5	19.2	21.5	22.2	47.4	32.0	8.3	87.7
August .....	3.6	3.8	11.4	W	1.5	18.5	22.3	22.9	47.5	32.2	10.0	89.7
September .....	3.4	3.7	10.7	W	1.2	17.1	21.9	22.6	46.1	30.2	8.6	84.9
October .....	3.5	3.6	11.1	W	2.0	18.4	22.2	22.7	46.8	30.9	10.7	88.4
November .....	3.5	3.5	11.6	W	2.2	18.9	21.4	21.8	47.9	30.0	9.1	87.0
December .....	3.8	3.8	11.8	W	1.9	19.2	23.4	23.7	48.5	31.2	10.7	90.4
<b>1997</b> .....	<b>3.4</b>	<b>3.5</b>	<b>11.5</b>	<b>5.3</b>	<b>1.5</b>	<b>18.2</b>	<b>20.3</b>	<b>21.0</b>	<b>47.4</b>	<b>30.1</b>	<b>9.1</b>	<b>86.6</b>
<b>1998</b>												
January .....	3.5	3.5	11.2	W	W	17.3	20.7	21.0	45.8	28.7	9.3	83.8
February .....	3.7	3.7	11.9	W	W	18.3	21.7	22.0	47.6	30.1	8.5	86.2
March .....	3.8	3.9	12.3	W	W	19.6	22.0	22.4	48.8	31.0	8.6	88.4
April .....	3.8	3.9	12.3	W	W	19.8	22.5	22.8	49.4	31.5	10.5	91.5
May .....	3.8	3.9	12.2	W	W	19.9	22.6	22.9	49.5	32.4	11.7	93.6
June .....	4.0	4.0	12.5	W	W	19.8	23.2	23.5	50.4	33.5	9.5	93.4
July .....	4.2	4.2	12.6	W	W	20.2	24.0	24.3	49.7	34.2	11.8	95.7
August .....	4.2	4.2	W	6.4	W	20.6	23.5	23.9	W	34.2	W	92.9
September .....	4.1	4.2	12.5	W	W	21.0	23.5	23.9	48.5	33.0	11.5	93.0
October .....	3.9	4.0	12.5	6.3	2.0	20.7	22.1	22.5	48.4	33.0	10.4	91.8

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 14. U.S. Propane (Consumer Grade) Prices by Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users							Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Petro- Chemical	Other End Users	Average	
<b>1994</b> .....	<b>87.2</b>	<b>76.5</b>	<b>65.2</b>	<b>73.6</b>	<b>31.1</b>	<b>63.4</b>	<b>77.6</b>	<b>33.6</b>
<b>1995</b> .....	<b>86.5</b>	<b>77.7</b>	<b>64.6</b>	<b>74.7</b>	<b>32.4</b>	<b>66.2</b>	<b>76.6</b>	<b>35.4</b>
<b>1996</b>								
January .....	92.8	82.5	68.1	NA	34.5	71.8	86.3	42.3
February .....	96.1	84.9	70.3	81.9	38.3	75.2	88.5	45.1
March .....	96.3	86.1	70.1	68.7	36.5	75.5	87.7	42.3
April .....	96.0	84.3	68.3	67.1	36.2	75.5	84.8	38.9
May .....	95.0	83.3	66.8	65.5	35.7	76.8	79.9	37.5
June .....	94.5	82.8	67.9	65.7	35.3	76.3	78.6	37.3
July .....	89.3	82.9	66.2	65.5	35.4	71.1	76.6	38.0
August .....	86.5	80.6	66.1	66.0	36.9	67.5	75.6	39.6
September .....	90.7	85.0	71.4	69.7	43.8	69.5	78.4	45.8
October .....	97.4	91.0	75.6	78.3	46.1	70.0	84.0	51.5
November .....	105.7	96.6	81.8	83.7	54.2	82.5	95.9	58.3
December .....	121.3	110.0	92.3	95.0	58.4	97.3	112.5	68.4
<b>1996</b> .....	<b>99.1</b>	<b>88.4</b>	<b>73.3</b>	<b>75.7</b>	<b>41.3</b>	<b>76.4</b>	<b>88.6</b>	<b>47.1</b>
<b>1997</b>								
January .....	117.8	105.9	91.0	88.6	54.0	93.7	110.0	61.2
February .....	107.3	97.1	79.6	77.8	42.1	82.6	97.9	46.0
March .....	102.2	92.4	80.0	74.7	41.2	79.2	90.8	42.8
April .....	98.6	90.2	76.9	71.4	36.2	78.2	84.9	39.1
May .....	97.2	88.3	74.6	70.1	35.9	79.4	81.3	38.1
June .....	95.6	87.6	73.4	69.7	35.3	80.6	80.8	37.5
July .....	90.3	86.3	73.2	68.6	35.3	74.0	78.3	37.0
August .....	86.1	84.3	72.1	66.8	36.9	71.0	77.0	38.4
September .....	87.7	84.7	73.3	68.4	37.6	70.0	77.6	40.3
October .....	89.9	84.9	73.2	69.9	39.5	65.6	78.2	41.9
November .....	92.1	86.7	73.7	69.0	38.6	68.0	82.0	40.8
December .....	94.5	87.4	74.9	69.2	35.2	71.4	85.8	38.7
<b>1997</b> .....	<b>99.6</b>	<b>90.5</b>	<b>77.8</b>	<b>72.6</b>	<b>38.4</b>	<b>74.3</b>	<b>87.8</b>	<b>42.6</b>
<b>1998</b>								
January .....	94.7	86.5	80.9	67.2	32.2	70.6	85.5	36.5
February .....	96.3	87.7	77.4	66.6	30.9	70.4	84.9	34.1
March .....	93.5	85.5	75.4	64.5	28.7	70.0	82.6	32.3
April .....	94.4	84.3	78.3	64.5	28.9	72.8	80.6	31.1
May .....	94.9	84.9	76.5	74.4	28.1	76.3	78.2	30.0
June .....	90.4	84.0	69.6	63.0	25.2	71.8	75.4	27.4
July .....	86.1	82.4	68.0	60.1	24.9	68.2	73.9	26.6
August .....	82.2	80.5	67.1	59.3	24.3	64.4	70.8	26.5
September .....	81.8	79.1	65.7	58.0	24.3	59.7	71.6	26.9
October .....	82.9	78.0	66.2	58.2	25.9	56.1	71.6	28.4

NA = Not available.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 15. U.S. No. 2 Distillate<sup>a</sup> Prices by Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>b</sup>	Other End Users <sup>c</sup>	Average	
<b>1983</b> .....	107.8	86.3	88.3	94.3	89.7	93.3	81.8
<b>1984</b> .....	109.1	85.7	87.0	92.0	89.2	92.6	81.9
<b>1985</b> .....	105.3	82.1	83.4	88.6	85.3	89.0	78.1
<b>1986</b> .....	83.6	51.4	53.7	59.8	56.9	61.4	48.0
<b>1987</b> .....	80.3	56.6	59.7	64.4	63.1	64.3	53.5
<b>1988</b> .....	81.3	51.9	54.2	61.6	58.7	61.2	48.2
<b>1989</b> .....	90.0	60.8	63.8	68.5	66.7	69.5	57.2
<b>1990</b> .....	106.3	75.1	78.0	85.2	82.8	84.1	70.6
<b>1991</b> .....	101.9	67.5	69.7	74.5	73.8	76.0	62.7
<b>1992</b> .....	93.4	63.7	67.5	72.1	72.1	72.6	59.1
<b>1993</b> .....	91.1	62.0	66.7	71.1	70.5	71.0	56.6
<b>1994</b> .....	88.4	58.7	64.1	67.3	65.5	67.5	52.9
<b>1995</b> .....	86.7	59.3	64.4	67.0	67.3	67.3	53.6
<b>1996</b>							
January .....	94.6	63.7	67.5	69.9	69.6	75.2	57.3
February .....	95.9	65.0	68.8	70.7	70.6	75.6	59.1
March .....	99.1	68.4	73.1	75.1	74.7	78.1	63.2
April .....	101.5	75.2	80.1	82.6	82.8	82.5	69.9
May .....	97.8	72.7	79.0	81.2	80.4	79.0	66.1
June .....	91.0	65.2	72.4	74.5	74.5	71.5	58.6
July .....	87.9	65.5	72.1	73.2	74.4	71.1	60.1
August .....	88.1	69.5	75.8	75.8	77.7	74.4	64.9
September .....	94.5	75.9	82.3	81.7	83.9	81.1	71.3
October .....	102.6	79.5	85.4	86.4	87.9	86.0	75.0
November .....	105.4	78.6	84.1	86.7	86.7	87.1	73.2
December .....	107.5	77.7	82.9	85.5	84.8	87.9	71.8
<b>1996</b> .....	<b>98.9</b>	<b>71.4</b>	<b>77.1</b>	<b>78.8</b>	<b>79.3</b>	<b>79.3</b>	<b>66.0</b>
<b>1997</b>							
January .....	107.9	77.0	81.7	84.1	83.5	88.2	70.6
February .....	105.1	74.5	79.1	81.9	82.0	84.8	67.2
March .....	101.6	69.3	73.0	76.5	76.4	78.5	61.7
April .....	99.2	67.7	72.3	75.5	76.8	75.8	61.8
May .....	96.4	66.3	71.0	74.5	75.9	73.3	60.8
June .....	92.3	63.1	67.9	72.2	73.1	69.7	56.9
July .....	88.3	62.0	66.7	70.5	71.2	68.0	56.1
August .....	86.9	64.2	68.5	71.9	73.0	69.9	58.8
September .....	88.7	63.7	68.5	71.4	73.2	70.1	57.8
October .....	92.3	67.3	71.1	73.8	76.5	73.7	61.9
November .....	94.1	68.0	71.0	74.0	75.1	75.4	61.6
December .....	93.8	63.9	66.7	70.9	70.4	73.8	56.0
<b>1997</b> .....	<b>98.4</b>	<b>67.4</b>	<b>71.2</b>	<b>74.5</b>	<b>75.3</b>	<b>75.3</b>	<b>61.1</b>
<b>1998</b>							
January .....	92.5	59.4	61.8	66.3	65.6	69.8	51.0
February .....	91.5	57.5	60.1	63.5	63.4	67.6	49.6
March .....	89.6	54.9	57.5	61.6	62.0	64.5	47.1
April .....	87.6	55.7	58.6	61.6	63.6	62.5	48.5
May .....	84.8	54.3	57.4	61.9	63.0	60.3	47.3
June .....	81.1	50.9	54.7	59.1	59.8	56.8	44.1
July .....	77.6	49.9	54.0	57.9	57.4	55.4	42.7
August .....	75.5	48.7	52.4	56.2	56.9	54.1	41.3
September .....	77.0	51.6	55.3	58.1	59.8	56.9	45.5
October .....	78.6	51.9	55.3	58.8	60.5	58.1	45.3
November <sup>d</sup> .....	NA	NA	NA	<sup>E</sup> 57.6	NA	NA	<sup>E</sup> 42.0

NA = Not available.

E = Estimated data.

<sup>a</sup> Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.

<sup>b</sup> Includes low-sulfur diesel fuel only.

<sup>c</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

<sup>d</sup> Data are initial estimates calculated using prior history of the series as well as present and past values of other related time series, such as spot prices and heating degree days. For an explanation of estimation methodology, see the Explanatory Notes.

Notes: Values shown for the current two months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report."



**Table 16. U.S. No. 2 Diesel Fuel Prices by Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
<b>1994</b> .....	<b>57.7</b>	<b>64.5</b>	<b>67.3</b>	<b>66.1</b>	<b>62.8</b>	<b>53.8</b>
<b>1995</b> .....	<b>58.8</b>	<b>64.9</b>	<b>67.0</b>	<b>67.7</b>	<b>63.6</b>	<b>54.6</b>
<b>1996</b>						
January .....	61.7	67.5	69.9	69.4	66.3	57.0
February .....	63.1	68.9	70.7	70.5	67.4	58.8
March .....	67.2	73.2	75.1	74.6	71.7	63.0
April .....	74.9	80.6	82.6	82.9	79.5	70.7
May .....	72.9	79.7	81.2	81.0	77.6	67.5
June .....	65.4	73.1	74.5	75.1	70.9	59.9
July .....	65.7	72.7	73.2	74.9	70.5	60.8
August .....	69.6	76.2	75.8	78.0	73.8	65.6
September .....	76.1	82.8	81.7	84.1	80.0	72.3
October .....	79.4	85.8	86.4	88.2	84.0	75.9
November .....	78.3	84.5	86.7	87.2	83.1	74.1
December .....	76.7	83.1	85.5	84.9	81.6	71.8
<b>1996</b> .....	<b>71.1</b>	<b>77.5</b>	<b>78.8</b>	<b>79.6</b>	<b>75.7</b>	<b>66.7</b>
<b>1997</b>						
January .....	75.6	81.7	84.1	83.7	80.4	70.7
February .....	73.7	79.1	81.9	82.1	78.3	68.5
March .....	68.3	73.2	76.5	76.6	72.9	63.4
April .....	67.1	72.7	75.5	77.2	72.3	62.8
May .....	66.0	71.3	74.5	76.3	71.3	61.3
June .....	62.8	68.2	72.2	73.5	68.6	57.4
July .....	61.8	67.1	70.5	72.0	67.2	56.6
August .....	64.2	69.1	71.9	73.6	69.1	59.6
September .....	63.6	69.3	71.4	73.8	68.6	58.6
October .....	67.1	71.8	73.8	76.8	71.6	62.6
November .....	67.4	71.7	74.0	75.7	71.5	62.5
December .....	62.3	67.3	70.9	70.8	67.1	56.4
<b>1997</b> .....	<b>66.6</b>	<b>71.5</b>	<b>74.5</b>	<b>75.7</b>	<b>71.4</b>	<b>61.6</b>
<b>1998</b>						
January .....	57.1	62.2	66.3	65.8	62.3	51.0
February .....	55.5	60.3	63.5	63.4	60.1	49.5
March .....	53.1	57.8	61.6	62.0	58.0	47.2
April .....	54.9	59.1	61.6	63.8	59.3	49.3
May .....	54.0	58.1	61.9	63.9	59.0	48.2
June .....	50.8	55.3	59.1	60.5	55.8	44.8
July .....	49.7	54.7	57.9	58.0	54.6	43.4
August .....	48.6	53.2	56.2	57.7	53.4	42.2
September .....	51.4	55.9	58.1	60.3	55.7	46.2
October .....	51.6	55.9	58.8	60.9	56.2	46.3
November <sup>c</sup> .....	NA	NA	<sup>E</sup> 57.6	NA	NA	NA

NA = Not available.

E = Estimated data.

<sup>a</sup> Includes low-sulfur diesel fuel only.

<sup>b</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

<sup>c</sup> Data are initial estimates calculated using prior history of the series as well as present and past values of other related time series, such as spot prices and heating degree days. For an explanation of estimation methodology, see the Explanatory Notes.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current two months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 17. U.S. No. 2 Diesel Fuel Prices by Sulfur Content and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Low-Sulfur Diesel Fuel						High-Sulfur Diesel Fuel				
	Sales to End Users					Sales for Resale	Sales to End Users				Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Other End Users <sup>a</sup>	Average		Commercial/ Institutional Consumers	Industrial Consumers	Other End Users <sup>a</sup>	Average	
1994 .....	59.1	66.0	67.3	67.4	64.2	54.2	55.3	62.9	64.6	59.8	51.9
1995 .....	59.8	66.3	67.0	68.4	64.5	55.1	56.8	63.6	66.7	61.4	52.4
<b>1996</b>											
January .....	62.7	68.1	69.9	69.7	67.1	57.5	59.9	66.9	68.8	64.1	55.1
February .....	64.2	70.1	70.7	71.2	68.3	59.3	61.1	67.8	69.6	65.2	56.9
March .....	68.7	74.6	75.1	75.3	72.7	63.6	64.2	71.6	73.6	68.7	59.9
April .....	76.7	82.7	82.6	84.5	80.8	71.8	71.4	78.1	80.8	75.9	65.8
May .....	74.4	82.6	81.2	83.4	79.1	68.4	70.4	76.6	78.3	74.2	63.2
June .....	66.5	75.7	74.5	76.7	72.0	60.4	63.5	70.5	73.3	68.2	57.7
July .....	67.0	74.4	73.2	75.8	71.4	61.4	63.4	71.0	73.9	68.2	58.3
August .....	71.1	78.0	75.8	79.6	74.8	66.1	67.0	74.3	76.2	71.2	63.1
September .....	77.0	84.5	81.7	85.1	80.7	72.5	74.3	80.9	82.7	78.3	70.9
October .....	81.0	87.0	86.4	89.1	84.9	76.3	76.6	84.6	86.9	81.6	74.0
November .....	79.4	85.4	86.7	87.6	84.0	74.6	76.3	83.5	86.8	81.0	71.9
December .....	77.8	84.0	85.5	84.9	82.4	72.2	74.8	82.2	84.9	79.3	70.3
1996 .....	72.3	79.1	78.8	80.6	76.7	67.3	68.7	75.9	78.4	73.2	63.9
<b>1997</b>											
January .....	76.6	82.7	84.1	83.7	81.2	71.0	73.8	80.7	83.7	78.2	69.4
February .....	74.9	81.6	81.9	82.5	79.3	68.8	71.5	76.8	81.7	75.4	66.5
March .....	69.0	74.8	76.5	76.7	73.7	64.0	67.0	71.7	76.6	70.6	60.9
April .....	67.7	74.4	75.5	77.0	72.8	63.2	65.8	71.0	77.4	70.6	60.6
May .....	66.4	72.0	74.5	76.3	71.8	61.8	65.1	70.5	76.3	69.9	59.1
June .....	62.9	68.7	72.2	73.9	69.1	57.7	62.6	67.6	73.0	66.9	56.1
July .....	61.7	67.7	70.5	72.5	67.7	56.9	61.9	66.5	71.4	65.9	55.1
August .....	64.4	69.8	71.9	74.2	69.6	59.9	63.9	68.4	72.7	67.5	58.0
September .....	63.5	70.3	71.4	74.2	68.9	58.7	63.7	68.1	73.2	67.5	57.9
October .....	67.2	72.3	73.8	77.2	71.9	62.9	66.8	71.1	76.3	70.8	61.0
November .....	67.5	72.0	74.0	76.3	71.9	63.0	67.1	71.2	74.9	70.2	59.9
December .....	62.9	66.9	70.9	71.4	67.8	56.7	61.1	67.7	70.0	64.9	54.9
1997 .....	67.0	72.2	74.5	76.0	71.9	61.9	65.9	70.8	75.3	69.8	60.2
<b>1998</b>											
January .....	57.5	61.7	66.3	65.5	62.9	51.4	56.3	62.8	66.3	60.3	49.1
February .....	55.6	59.5	63.5	63.3	60.5	49.9	55.4	61.1	63.5	58.9	47.9
March .....	53.2	57.4	61.6	61.9	58.5	47.5	52.8	58.2	62.1	56.4	45.2
April .....	54.9	58.7	61.6	63.6	59.4	49.7	54.9	59.6	64.1	58.8	46.8
May .....	53.9	58.1	61.9	63.8	59.1	48.8	54.4	58.1	64.0	58.5	45.5
June .....	50.7	54.4	59.1	60.5	56.1	45.3	50.9	56.3	60.5	55.2	42.4
July .....	49.5	54.0	57.9	58.0	54.8	43.8	50.0	55.6	58.0	53.7	41.6
August .....	48.4	53.3	56.2	57.4	53.6	42.4	48.9	53.1	58.2	52.5	40.6
September .....	51.5	55.9	58.1	60.2	55.9	46.6	51.1	55.8	60.4	54.9	44.1
October .....	51.4	56.0	58.8	60.5	56.3	46.5	52.1	55.8	61.3	56.0	44.9
November <sup>b</sup> .....	NA	NA	57.6	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not available.

E = Estimated data. Includes on-highway diesel fuel only.

<sup>a</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

<sup>b</sup> Data are initial estimates calculated using prior history of the series as well as present and past values of other related time series, such as spot prices and heating degree days. For an explanation of estimation methodology, see the Explanatory Notes.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey system. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current two months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States**  
(Cents per Gallon Excluding Taxes)

Year Month	U.S. Average	PAD District I								
		Average	CT	ME	MA	NH	RI	VT	DE	DC
1978 .....	49.0	—	50.1	48.6	48.8	50.3	50.7	50.8	47.8	50.7
1979 .....	70.4	—	72.0	68.8	70.9	72.5	72.8	72.5	68.2	74.2
1980 .....	97.4	—	98.3	96.3	97.8	100.4	101.1	101.5	95.4	102.6
1981 .....	119.4	—	121.7	120.4	121.3	123.7	123.8	125.4	117.3	127.4
1982 .....	116.0	—	118.3	115.5	117.6	117.4	120.1	120.1	111.3	124.5
1983 .....	107.8	109.0	109.1	102.8	109.1	104.1	110.5	112.9	106.0	117.0
1984 .....	109.1	111.3	112.1	103.9	111.6	108.4	111.4	111.9	109.6	118.7
1985 .....	105.3	106.8	108.0	99.7	107.0	102.4	106.7	107.7	104.6	114.3
1986 .....	83.6	86.2	89.0	74.4	82.1	75.9	82.8	86.6	85.0	93.1
1987 .....	80.3	81.4	83.4	74.7	80.6	76.5	82.5	81.1	79.3	91.8
1988 .....	81.3	82.7	85.3	77.7	82.1	78.2	83.6	82.6	80.1	91.6
1989 .....	90.0	91.7	92.9	89.4	92.6	89.3	93.9	90.5	88.2	98.6
1990 .....	106.3	108.1	109.8	98.9	108.4	102.8	108.6	107.0	105.8	107.8
1991 .....	101.9	104.1	106.2	96.0	103.0	91.6	99.9	101.9	99.7	112.2
1992 .....	93.4	94.9	94.7	87.1	92.5	85.6	91.2	92.1	92.3	105.7
1993 .....	91.1	92.1	91.9	82.6	89.7	82.8	89.3	90.4	89.9	104.5
1994 .....	88.4	89.4	89.0	81.8	87.0	79.2	88.5	87.6	89.4	100.0
1995 .....	86.7	87.5	86.4	78.7	84.4	77.9	87.4	85.3	87.0	101.0
<b>1996</b>										
January .....	94.6	96.1	94.5	93.0	92.0	89.1	94.9	92.6	94.7	111.7
February .....	95.9	97.5	96.2	93.2	93.8	90.8	95.6	93.7	94.4	112.9
March .....	99.1	100.6	99.6	96.7	99.3	93.8	99.7	97.3	96.1	117.7
April .....	101.5	102.7	102.1	98.7	101.5	96.5	98.8	100.3	100.7	115.9
May .....	97.8	98.1	96.8	95.4	95.9	93.6	94.9	98.8	98.0	109.7
June .....	91.0	91.3	88.8	90.1	87.9	87.2	88.7	92.2	91.9	102.5
July .....	87.9	88.0	84.9	87.5	87.5	83.6	87.7	88.5	91.0	97.3
August .....	88.1	88.2	84.0	89.5	89.0	85.1	88.3	89.0	91.0	99.2
September .....	94.5	94.4	92.5	96.4	93.1	91.9	96.6	94.4	95.3	106.2
October .....	102.6	103.5	103.0	101.1	103.0	99.1	104.0	100.7	103.1	120.9
November .....	105.4	106.1	105.0	103.4	103.7	99.7	104.5	101.9	105.9	125.7
December .....	107.5	108.5	108.1	105.1	105.9	101.6	106.4	103.6	106.7	129.2
1996 .....	98.9	100.0	98.6	97.2	97.6	94.0	98.6	96.9	98.4	117.8
<b>1997</b>										
January .....	107.9	109.0	108.6	105.2	106.5	102.1	107.0	104.4	106.5	130.4
February .....	105.1	106.0	105.2	102.2	103.4	101.0	104.5	103.5	104.2	127.0
March .....	101.6	102.5	99.3	94.3	97.7	98.6	100.4	103.1	100.7	121.4
April .....	99.2	100.3	97.6	90.9	95.9	95.2	99.4	100.4	100.1	116.3
May .....	96.4	97.1	93.4	90.6	93.0	91.9	97.3	97.7	96.4	108.6
June .....	92.3	92.9	89.9	88.1	89.1	89.1	93.3	92.9	90.8	99.9
July .....	88.3	88.7	83.7	86.7	87.5	85.6	91.6	91.1	88.8	W
August .....	86.9	86.8	84.2	85.8	84.7	85.3	91.0	92.7	89.2	W
September .....	88.7	89.0	85.5	87.0	87.0	86.3	91.2	91.7	88.5	NA
October .....	92.3	92.8	88.9	90.0	89.5	88.2	94.6	93.1	88.0	106.7
November .....	94.1	94.6	91.3	92.0	90.7	88.6	95.4	94.7	92.0	W
December .....	93.8	94.6	91.9	90.9	89.9	88.5	94.6	94.0	94.2	111.8
1997 .....	98.4	99.3	96.3	94.2	96.0	94.2	98.9	98.7	98.4	117.4
<b>1998</b>										
January .....	92.5	93.6	91.4	88.7	88.8	87.4	93.4	92.9	92.5	111.0
February .....	91.5	92.7	90.0	85.7	87.6	86.7	92.6	91.7	91.9	110.0
March .....	89.6	90.8	88.6	83.0	86.6	84.4	90.2	92.2	90.6	104.9
April .....	87.6	88.5	85.7	81.6	83.4	81.3	88.9	89.1	88.5	100.3
May .....	84.8	85.8	83.2	80.3	81.8	79.4	87.2	86.9	81.7	NA
June .....	81.1	82.1	78.1	78.6	78.4	75.6	84.4	84.3	79.9	89.8
July .....	77.6	78.3	74.2	76.0	76.1	70.5	83.3	81.5	74.1	84.0
August .....	75.5	76.1	71.4	74.3	74.0	68.5	78.8	80.9	74.5	85.6
September .....	77.0	77.6	72.4	74.4	74.2	70.8	78.8	80.5	73.0	84.6
October .....	78.6	79.1	75.5	74.1	75.3	71.2	81.9	82.4	73.9	W
November <sup>a</sup> .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes at end of table.

**Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States**

(Cents per Gallon Excluding Taxes) — Continued

Year Month	PAD District I (Continued)						PAD District II			
	MD	NJ	NY	PA	VA	WV	Average	IL	IN	MI
<b>1978</b> .....	49.2	49.6	50.1	48.8	49.1	46.2	—	46.5	48.5	47.9
<b>1979</b> .....	70.1	71.0	71.2	69.8	70.4	65.1	—	68.8	72.7	70.9
<b>1980</b> .....	97.9	97.9	98.2	96.4	98.5	92.2	—	95.8	99.6	97.8
<b>1981</b> .....	121.4	121.5	123.2	118.1	120.5	115.0	—	114.9	118.5	118.3
<b>1982</b> .....	117.1	117.4	120.5	113.7	117.7	109.3	—	110.9	114.3	113.9
<b>1983</b> .....	110.3	107.9	112.1	105.8	108.7	101.0	102.0	100.4	100.7	106.4
<b>1984</b> .....	113.5	111.0	115.5	107.9	110.5	102.1	101.7	100.1	103.1	105.0
<b>1985</b> .....	108.8	105.9	111.3	102.3	106.3	98.0	99.4	97.5	99.1	102.1
<b>1986</b> .....	91.4	90.2	91.1	81.4	86.6	74.6	72.7	NA	74.8	81.0
<b>1987</b> .....	86.6	84.3	85.2	76.9	79.5	76.4	74.8	79.8	75.4	77.5
<b>1988</b> .....	87.0	84.8	86.3	77.8	80.5	74.2	74.3	77.6	75.4	77.5
<b>1989</b> .....	93.8	91.8	95.8	85.1	87.0	83.0	81.9	80.9	83.2	85.3
<b>1990</b> .....	111.9	108.8	112.5	102.6	110.6	99.1	97.8	96.1	99.3	100.9
<b>1991</b> .....	108.4	104.0	111.3	99.7	101.1	93.4	90.8	92.7	91.8	94.2
<b>1992</b> .....	100.0	93.9	102.8	89.0	92.8	86.4	82.9	87.7	81.2	87.2
<b>1993</b> .....	98.1	92.4	100.1	86.3	89.3	85.6	83.3	84.4	81.0	87.2
<b>1994</b> .....	95.0	89.5	96.6	85.7	85.3	80.9	80.8	78.4	81.2	86.3
<b>1995</b> .....	93.6	88.8	95.5	82.6	84.4	81.5	80.9	78.5	81.6	86.0
<b>1996</b>										
January .....	103.9	97.8	102.9	92.3	91.3	90.7	84.4	84.4	85.6	89.6
February .....	104.1	100.5	104.1	93.1	92.8	93.8	85.7	85.8	86.4	91.2
March .....	106.4	103.5	106.6	95.9	93.6	95.8	89.4	88.7	90.7	97.0
April .....	105.8	105.4	109.0	97.1	95.4	97.0	93.4	90.4	93.5	101.0
May .....	104.4	98.2	105.2	92.9	91.7	91.4	92.6	89.9	93.0	99.6
June .....	97.3	91.8	101.4	83.9	88.2	89.9	86.3	80.6	86.2	94.6
July .....	93.7	89.7	97.2	79.4	88.5	88.6	85.9	78.9	85.6	92.2
August .....	93.7	90.6	93.4	82.0	89.1	88.9	86.0	83.0	87.4	92.5
September .....	99.3	97.3	99.1	88.9	92.6	94.9	92.2	87.1	92.8	98.6
October .....	108.1	105.7	107.9	99.4	98.6	101.1	96.8	92.4	96.6	102.6
November .....	111.8	108.8	111.6	102.2	102.2	104.6	100.7	96.8	102.4	106.4
December .....	114.9	111.1	114.4	104.0	104.3	104.3	100.5	98.1	100.8	106.4
<b>1996</b> .....	<b>106.3</b>	<b>102.4</b>	<b>106.3</b>	<b>95.3</b>	<b>95.2</b>	<b>96.0</b>	<b>91.3</b>	<b>89.3</b>	<b>91.2</b>	<b>97.7</b>
<b>1997</b>										
January .....	117.1	111.6	114.3	104.2	105.5	103.8	99.7	99.2	100.9	105.6
February .....	115.0	108.7	111.6	102.1	102.7	101.2	97.7	93.2	97.0	104.4
March .....	108.1	104.9	111.2	97.7	100.4	98.1	93.2	90.2	94.7	NA
April .....	105.6	102.8	109.4	94.8	96.7	95.7	90.7	85.5	NA	91.7
May .....	101.9	100.1	107.7	92.4	89.9	92.9	90.4	81.9	88.7	90.7
June .....	98.0	97.2	103.6	87.6	87.8	90.6	87.0	81.4	84.2	88.2
July .....	96.1	90.3	99.4	82.0	85.9	87.4	83.3	79.9	79.9	84.9
August .....	93.8	90.1	92.9	80.7	85.3	85.0	84.2	81.3	83.2	87.4
September .....	94.7	91.2	94.5	82.8	88.9	87.6	84.4	77.4	80.4	88.3
October .....	97.8	95.4	100.6	87.2	90.2	88.1	87.1	82.6	84.5	88.9
November .....	100.3	97.8	101.7	89.5	91.8	92.2	88.3	81.5	85.0	93.6
December .....	100.9	98.2	101.8	89.9	92.5	93.6	85.8	82.1	81.8	88.9
<b>1997</b> .....	<b>105.7</b>	<b>103.3</b>	<b>106.5</b>	<b>95.0</b>	<b>94.8</b>	<b>96.2</b>	<b>91.0</b>	<b>87.0</b>	<b>86.5</b>	<b>94.2</b>
<b>1998</b>										
January .....	100.4	96.2	101.4	89.2	92.1	91.0	82.5	80.3	79.7	85.9
February .....	98.7	95.4	100.8	88.5	91.4	88.9	80.6	79.1	78.8	85.0
March .....	96.8	92.6	98.3	86.3	89.6	88.6	79.4	76.9	77.9	83.3
April .....	93.1	91.3	97.1	84.0	88.4	86.8	79.0	73.6	77.0	81.8
May .....	89.0	89.2	95.0	82.1	83.8	82.1	76.3	69.4	73.2	79.9
June .....	85.8	83.6	92.1	75.7	82.4	79.9	74.2	66.4	72.1	79.3
July .....	81.2	78.7	89.0	70.1	81.2	73.5	72.7	70.5	69.7	76.5
August .....	79.4	76.8	83.8	69.9	79.8	72.7	70.8	NA	70.6	74.5
September .....	81.7	80.0	85.2	71.7	81.5	72.6	72.5	66.3	72.5	75.9
October .....	80.3	82.0	87.8	74.1	81.5	76.9	73.8	69.8	73.0	77.3
November <sup>a</sup> .....	NA	NA	NA	NA	NA	NA	<sup>E</sup> 73.8	NA	NA	NA

See footnotes at end of table.

**Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Year Month	PAD District II (Continued)			PAD District III Average	PAD District IV		PAD District V			
	MN	OH	WI		Average	ID	Average	AK	OR	WA
1978 .....	47.8	47.4	44.7	—	—	43.6	—	53.2	45.8	48.6
1979 .....	72.4	68.6	67.3	—	—	62.1	—	68.2	68.0	69.7
1980 .....	99.9	91.9	91.5	—	—	91.6	—	97.8	97.3	100.8
1981 .....	118.4	113.2	109.1	—	—	110.4	—	118.0	111.4	116.5
1982 .....	115.1	110.2	107.8	—	—	110.4	—	117.4	111.6	117.6
1983 .....	103.1	101.3	101.2	87.4	94.2	101.8	106.4	108.8	103.6	109.0
1984 .....	104.1	102.1	101.0	97.9	96.8	98.5	101.5	106.9	99.3	102.6
1985 .....	101.9	99.7	98.3	92.5	96.1	97.2	100.9	108.3	97.1	101.1
1986 .....	79.2	77.7	75.6	67.4	70.6	73.8	78.1	94.9	70.4	77.5
1987 .....	74.6	74.7	75.1	63.7	69.6	68.8	77.8	86.5	72.5	79.5
1988 .....	73.5	74.7	73.9	62.8	69.1	68.8	76.9	86.9	70.9	78.5
1989 .....	82.4	81.6	81.1	70.7	78.6	77.8	86.6	96.4	80.2	87.4
1990 .....	101.4	98.1	94.2	85.5	97.0	97.4	102.6	110.1	97.0	102.9
1991 .....	91.1	91.0	89.5	78.7	92.4	95.1	99.8	105.0	93.3	101.6
1992 .....	82.6	83.6	81.6	71.3	84.8	85.7	92.1	94.1	87.6	94.0
1993 .....	83.2	84.0	82.3	75.4	86.0	86.2	96.8	96.1	91.8	99.9
1994 .....	80.6	81.2	81.1	71.4	78.6	78.9	90.9	86.5	88.7	95.0
1995 .....	80.1	80.8	81.2	69.0	84.4	83.9	90.6	83.4	89.4	96.2
1996 .....										
January .....	82.7	85.5	83.3	70.9	88.0	87.2	92.5	84.0	90.1	99.7
February .....	83.7	87.7	83.9	72.4	88.0	86.8	92.5	83.3	90.9	99.6
March .....	86.7	91.6	87.1	75.5	87.8	86.6	93.1	84.5	90.0	101.1
April .....	91.4	95.3	91.5	82.2	96.4	95.7	101.3	90.0	101.0	109.7
May .....	92.0	91.3	92.2	76.5	99.7	97.1	107.9	97.9	108.6	116.7
June .....	85.5	86.8	88.4	70.3	86.9	91.0	103.4	96.2	NA	112.8
July .....	84.3	86.5	88.6	68.2	86.9	92.3	96.2	92.7	96.4	103.8
August .....	86.2	82.2	87.8	75.7	88.8	98.4	94.3	92.3	94.3	99.8
September .....	91.8	92.8	91.1	84.0	98.8	101.3	105.5	95.7	109.1	115.8
October .....	97.8	98.2	95.6	87.1	97.9	97.8	106.8	96.7	108.6	116.4
November .....	102.4	100.8	98.7	NA	102.4	98.1	107.4	96.9	107.5	115.3
December .....	100.4	101.5	98.9	87.4	98.3	95.4	106.7	96.4	105.1	114.9
1996 .....	90.9	92.1	89.9	77.5	94.2	93.3	99.9	90.9	98.9	108.0
1997 .....										
January .....	99.4	100.7	98.3	85.5	96.8	94.9	108.5	97.2	105.7	117.6
February .....	97.0	98.4	96.8	79.7	97.3	94.5	109.1	97.7	106.7	118.8
March .....	91.4	92.3	96.8	75.1	97.5	100.6	109.3	98.9	107.5	116.6
April .....	89.4	92.3	92.9	74.7	95.9	98.3	107.7	97.6	106.0	114.9
May .....	89.0	90.4	93.4	70.9	94.5	98.4	103.9	96.5	104.6	109.1
June .....	87.2	86.8	90.8	70.3	NA	93.4	102.5	96.1	100.2	112.2
July .....	84.7	83.2	86.9	70.4	89.9	89.9	103.3	97.6	96.8	NA
August .....	84.7	81.7	86.5	72.3	88.6	91.2	101.6	96.5	99.2	108.8
September .....	83.6	84.2	88.0	72.1	91.1	92.5	103.6	96.8	101.2	110.9
October .....	86.2	88.2	89.5	73.9	91.8	93.0	104.3	97.8	101.6	111.6
November .....	86.4	89.2	89.8	72.9	93.7	94.4	105.7	98.2	102.3	112.8
December .....	84.4	85.8	88.6	68.5	92.4	93.4	102.4	96.4	98.4	109.0
1997 .....	89.9	91.3	93.3	73.8	93.7	95.3	106.0	97.3	103.1	113.9
1998 .....										
January .....	81.5	81.9	85.4	66.2	83.3	85.0	98.9	NA	93.6	105.7
February .....	78.1	80.6	83.7	64.7	79.4	80.8	95.0	87.1	89.3	102.4
March .....	77.2	79.3	82.5	62.3	77.0	78.6	92.8	86.2	85.8	99.6
April .....	77.8	79.2	81.5	63.0	78.0	78.3	92.7	86.6	86.2	99.9
May .....	73.1	77.8	80.5	61.2	74.3	74.4	90.9	86.1	85.2	98.9
June .....	69.3	74.4	78.8	W	72.1	69.6	86.3	85.8	81.8	91.5
July .....	69.3	72.6	77.8	W	77.8	77.9	82.7	81.8	80.6	87.0
August .....	68.2	70.1	75.5	55.1	77.9	79.7	84.1	82.5	82.4	88.5
September .....	70.5	72.2	74.9	59.8	78.3	78.4	86.5	83.4	83.7	91.2
October .....	70.7	74.3	76.9	57.9	78.6	78.8	88.7	84.3	83.9	94.2
November <sup>a</sup> .....	NA	NA	NA	NA	NA	NA	E 89.2	NA	NA	NA

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

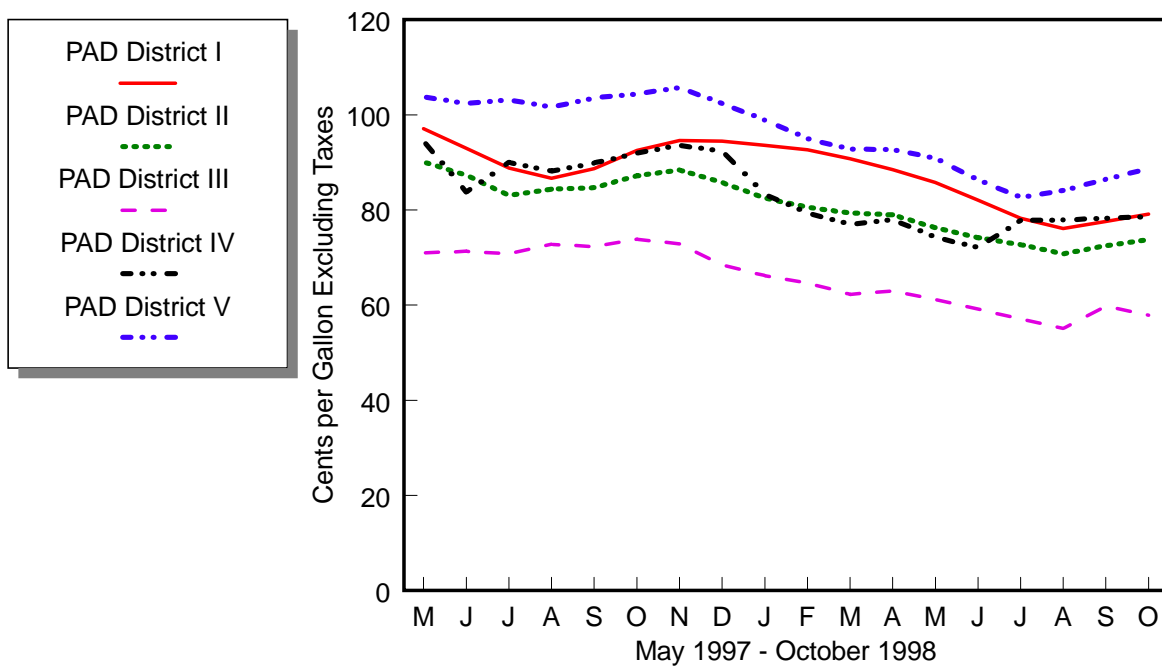
E = Estimated data.

<sup>a</sup> Data are initial estimates calculated using prior history of the series as well as present and past values of other related time series, such as spot prices and heating degree days. For an explanation of estimation methodology, see the Explanatory Notes.

Sources: Energy Information Administration Forms EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-9A, "No. 2 Distillate Price Monitoring Report," source for backcast estimates prior to January 1983.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Figure 6. U.S. No. 2 Distillate Prices to Residences by PAD District



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 19. U.S. Refiner Residual Fuel Oil Prices**

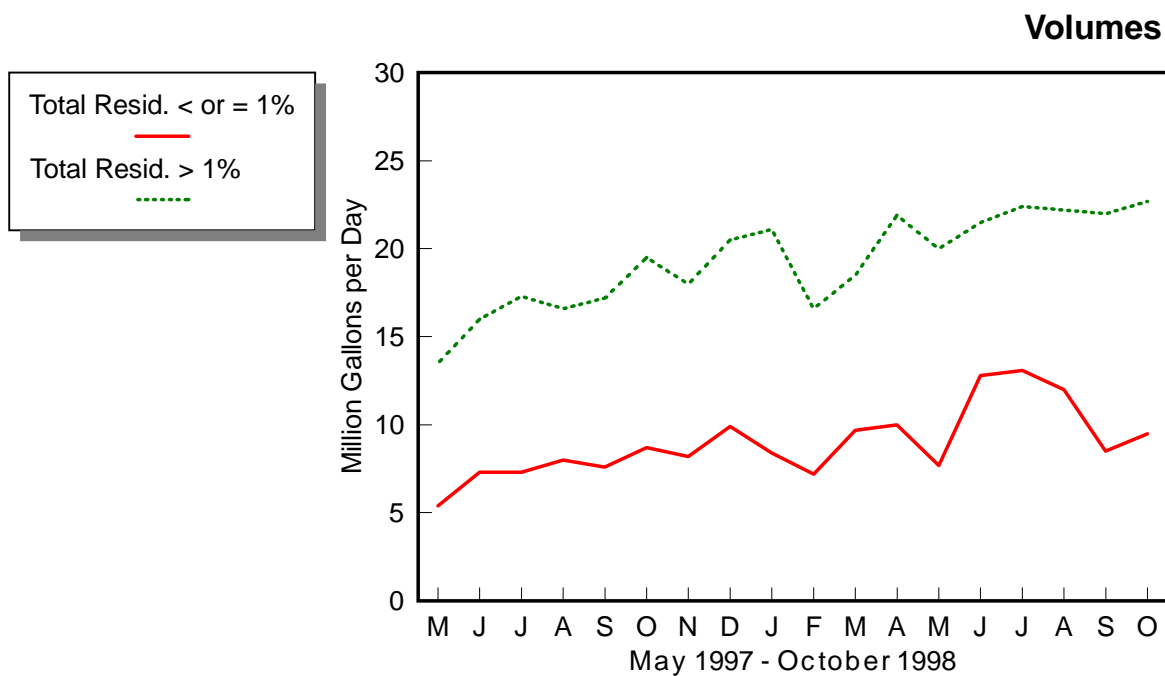
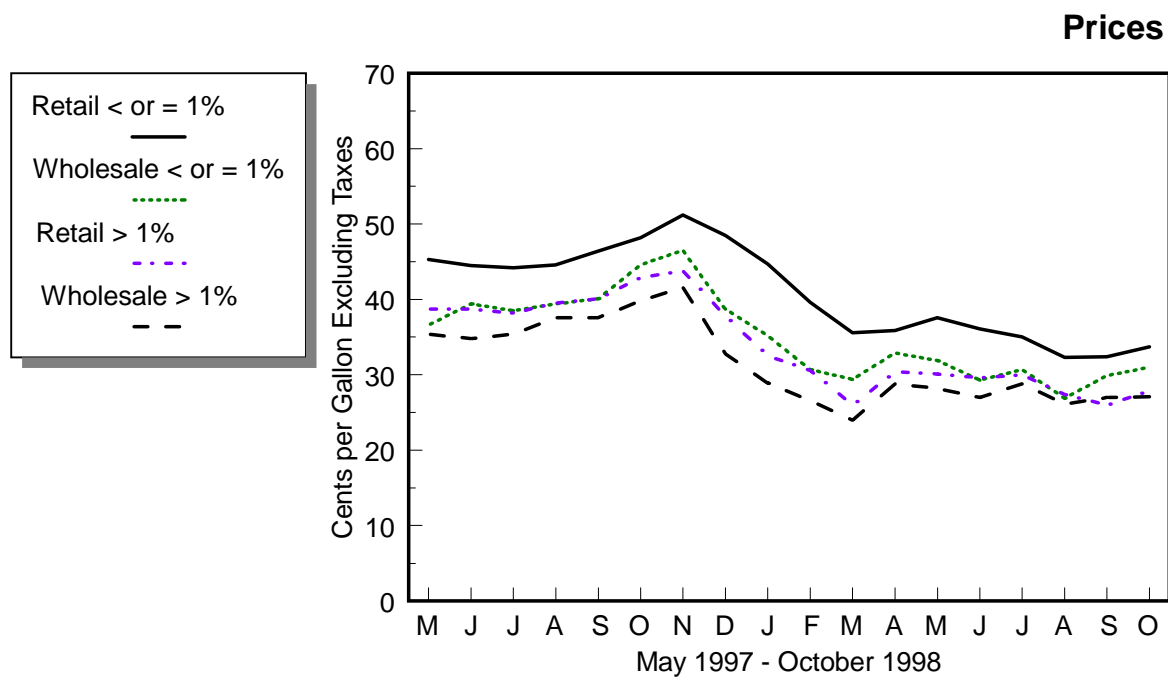
(Cents per Gallon Excluding Taxes)

Year Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
1978 .....	31.4	29.3	27.5	24.5	29.8	26.3
1979 .....	46.8	45.0	38.9	36.6	43.6	39.9
1980 .....	67.5	60.8	52.3	47.9	60.7	52.8
1981 .....	82.9	74.8	67.3	62.2	75.6	66.3
1982 .....	74.7	69.5	61.1	57.2	67.6	61.2
1983 .....	69.5	64.3	61.1	59.1	65.1	60.9
1984 .....	72.0	68.5	65.9	63.9	68.7	65.4
1985 .....	64.4	61.0	58.2	56.0	61.0	57.7
1986 .....	37.2	32.8	31.7	28.9	34.3	30.5
1987 .....	44.7	41.2	39.6	36.2	42.3	38.5
1988 .....	37.2	33.3	30.0	27.1	33.4	30.0
1989 .....	43.6	40.7	34.4	33.1	38.5	36.0
1990 .....	50.5	47.2	40.0	37.2	44.4	41.3
1991 .....	40.2	36.4	30.6	29.2	34.0	31.4
1992 .....	38.9	35.1	31.2	28.6	33.6	30.8
1993 .....	39.7	33.7	30.3	25.6	33.7	29.3
1994 .....	40.1	34.5	33.0	28.7	35.2	31.7
1995 .....	43.6	38.3	37.7	33.8	39.2	36.3
<b>1996</b>						
January .....	54.8	49.9	44.7	38.0	47.9	45.2
February .....	53.2	42.6	41.7	36.8	44.9	40.1
March .....	51.9	47.1	42.1	36.0	44.7	42.0
April .....	51.1	48.3	43.0	39.9	45.1	43.7
May .....	51.1	45.0	41.4	36.9	43.3	41.0
June .....	47.3	40.4	38.4	35.0	40.8	37.4
July .....	48.6	41.4	38.7	37.3	41.0	38.9
August .....	49.8	41.9	39.5	37.2	42.0	39.0
September .....	51.2	42.6	43.2	40.3	44.9	41.2
October .....	54.7	47.8	47.1	43.1	48.5	45.0
November .....	57.0	49.2	48.0	44.5	49.7	46.3
December .....	58.6	51.4	47.5	43.0	49.9	46.0
<b>1996</b> .....	<b>52.6</b>	<b>45.6</b>	<b>43.3</b>	<b>38.9</b>	<b>45.5</b>	<b>42.0</b>
<b>1997</b>						
January .....	58.7	46.2	46.3	39.3	49.5	42.9
February .....	54.6	43.7	41.8	35.4	45.2	39.3
March .....	49.3	39.8	37.6	33.9	40.3	35.8
April .....	46.4	37.6	37.5	35.2	39.7	36.1
May .....	45.2	36.7	38.6	35.4	40.3	35.8
June .....	44.4	39.5	38.7	34.7	40.1	36.7
July .....	44.2	38.5	38.2	35.3	39.6	36.5
August .....	44.6	39.4	39.5	37.5	40.7	38.3
September .....	46.4	40.1	40.1	37.5	41.3	38.7
October .....	48.2	44.6	42.9	39.7	43.9	42.0
November .....	51.2	46.5	43.8	41.6	45.7	43.5
December .....	48.5	38.7	37.8	32.8	40.2	35.6
<b>1997</b> .....	<b>48.8</b>	<b>41.5</b>	<b>40.3</b>	<b>36.6</b>	<b>42.3</b>	<b>38.7</b>
<b>1998</b>						
January .....	44.7	35.2	32.5	28.9	35.3	31.1
February .....	39.6	30.7	30.6	26.6	32.7	28.2
March .....	35.6	29.4	26.0	24.0	28.6	26.4
April .....	35.9	32.9	30.4	28.8	31.7	30.3
May .....	37.6	31.9	30.1	28.2	31.8	29.4
June .....	36.1	29.3	29.6	27.0	31.3	27.9
July .....	35.0	30.7	30.0	28.8	31.4	29.6
August .....	32.3	26.9	27.4	26.1	28.7	26.5
September .....	32.4	29.9	26.0	27.0	27.6	27.9
October .....	33.7	31.0	27.9	27.1	29.5	28.3

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 7. U.S. Refiner Residual Fuel Oil Prices and Volumes



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 20. U.S. Refiner Residual Fuel Oil Volumes**  
(Million Gallons per Day)

Year Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Total	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>1983</b> .....	13.4	7.2	14.9	12.9	28.3	20.2
<b>1984</b> .....	15.1	6.7	17.8	14.6	32.9	21.3
<b>1985</b> .....	11.4	7.0	13.8	12.9	25.2	19.9
<b>1986</b> .....	15.2	7.9	16.4	10.7	31.6	18.6
<b>1987</b> .....	15.1	7.8	13.9	9.1	29.0	16.9
<b>1988</b> .....	14.2	8.7	15.9	10.3	30.2	18.9
<b>1989</b> .....	13.4	7.9	17.0	13.1	30.4	21.0
<b>1990</b> .....	11.1	7.4	14.9	10.5	25.9	17.9
<b>1991</b> .....	8.6	5.6	15.5	12.2	24.0	17.8
<b>1992</b> .....	7.1	5.2	15.3	10.0	22.4	15.2
<b>1993</b> .....	6.2	5.7	11.1	6.9	17.2	12.6
<b>1994</b> .....	4.2	6.6	9.3	6.2	13.5	12.8
<b>1995</b> .....	2.9	7.7	8.7	5.9	11.6	13.6
<b>1996</b>						
January .....	4.6	10.0	9.8	6.7	14.4	16.7
February .....	4.2	8.6	10.9	6.4	15.0	15.0
March .....	3.3	9.0	9.4	7.7	12.7	16.7
April .....	3.0	6.1	8.8	7.4	11.8	13.5
May .....	2.0	6.5	8.7	6.2	10.7	12.7
June .....	3.0	6.4	8.3	7.8	11.3	14.1
July .....	2.7	5.5	9.0	8.6	11.7	14.1
August .....	3.0	6.1	9.3	9.5	12.3	15.6
September .....	2.3	4.3	8.7	7.5	10.9	11.8
October .....	2.4	4.5	11.1	6.6	13.5	11.2
November .....	2.8	4.3	11.6	7.0	14.3	11.3
December .....	3.5	4.4	12.2	8.0	15.7	12.3
<b>1996</b> .....	<b>3.1</b>	<b>6.3</b>	<b>9.8</b>	<b>7.4</b>	<b>12.9</b>	<b>13.8</b>
<b>1997</b>						
January .....	3.6	7.3	10.2	6.8	13.8	14.1
February .....	3.8	6.5	10.4	7.3	14.1	13.9
March .....	3.2	3.0	10.4	6.4	13.6	9.4
April .....	2.8	3.7	8.7	6.8	11.5	10.5
May .....	2.7	2.7	8.0	5.5	10.7	8.2
June .....	3.0	4.3	9.3	6.0	12.3	10.4
July .....	3.2	4.1	10.2	6.8	13.5	10.9
August .....	2.9	5.1	9.2	7.0	12.1	12.1
September .....	2.6	5.0	10.1	6.6	12.6	11.6
October .....	2.9	5.7	12.2	6.7	15.1	12.4
November .....	3.6	4.6	10.8	7.2	14.4	11.8
December .....	3.9	6.0	13.6	6.8	17.5	12.9
<b>1997</b> .....	<b>3.2</b>	<b>4.8</b>	<b>10.3</b>	<b>6.7</b>	<b>13.4</b>	<b>11.5</b>
<b>1998</b>						
January .....	3.6	4.8	11.9	9.2	15.5	14.0
February .....	3.1	4.1	10.4	6.2	13.5	10.2
March .....	4.2	5.5	11.3	7.2	15.5	12.7
April .....	3.5	6.5	11.0	10.9	14.4	17.4
May .....	3.0	4.7	10.2	9.8	13.2	14.5
June .....	3.7	6.8	10.2	11.3	13.8	18.2
July .....	4.5	8.6	11.6	10.8	16.0	19.4
August .....	4.8	7.2	13.0	9.2	17.8	16.5
September .....	3.2	5.3	9.8	12.2	13.0	17.4
October .....	4.1	5.4	10.8	11.9	14.9	17.2

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

# Crude Oil Prices



**Table 21. Domestic Crude Oil First Purchase Prices**

(Dollars per Barrel)

Year Month	U.S. Average		PAD District I				PAD District II						
	U.S. Average	Less AK North Slope	Average	NY	PA	WV	Average	IL	IN	KS	KY	MI	NE
1978 .....	9.00	9.56	12.25	W	14.72	14.48	11.91	13.81	13.70	13.20	13.73	11.86	11.40
1979 .....	12.64	13.01	14.30	W	24.13	23.35	18.33	23.49	23.28	21.57	22.55	14.47	18.13
1980 .....	21.59	22.65	22.66	W	37.46	36.92	30.12	35.78	35.91	34.20	34.98	23.54	30.60
1981 .....	31.77	33.71	35.22	W	36.03	35.63	35.63	36.03	36.07	35.80	35.90	35.74	35.32
1982 .....	28.52	30.43	31.77	30.91	30.77	29.98	31.65	31.69	31.66	30.79	31.19	31.80	30.98
1983 .....	26.19	28.00	28.32	28.19	28.28	27.27	29.17	29.12	29.06	28.45	28.60	28.93	28.58
1984 .....	25.88	27.59	27.76	27.70	27.71	26.90	28.62	28.76	28.72	27.99	28.24	28.54	27.83
1985 .....	24.09	25.74	25.88	25.19	25.05	24.35	25.94	26.90	26.82	25.33	26.20	26.16	25.42
1986 .....	12.51	14.13	14.76	16.03	15.77	14.68	14.30	14.70	14.55	14.02	14.20	14.61	13.70
1987 .....	15.40	16.83	16.52	17.40	17.43	16.56	17.42	17.53	17.49	17.37	17.19	17.63	17.08
1988 .....	12.58	13.97	14.21	W	15.26	14.35	14.65	14.79	14.78	14.55	14.58	14.92	14.08
1989 .....	15.86	17.13	17.16	W	18.15	17.18	18.04	18.36	18.37	18.18	18.36	18.06	17.36
1990 .....	20.03	21.57	22.06	23.32	23.00	22.16	22.88	23.36	23.46	23.21	23.20	22.92	21.94
1991 .....	16.54	18.16	19.01	19.67	19.48	W	19.58	20.19	20.20	19.84	19.84	19.88	18.78
1992 .....	15.99	17.38	18.52	19.05	19.01	18.09	18.63	19.26	19.27	18.50	18.75	18.99	17.51
1993 .....	14.25	15.31	17.28	17.20	17.53	16.76	16.27	16.97	16.97	15.95	16.51	16.79	14.90
1994 .....	13.19	14.30	16.23	15.94	16.13	15.68	15.05	15.76	15.66	14.71	15.33	15.43	13.60
1995 .....	14.62	15.72	17.18	16.74	16.93	16.53	16.39	16.95	16.88	16.19	16.43	16.63	15.18
<b>1996</b>													
January .....	15.43	16.44	17.83	17.72	17.63	17.02	17.05	17.49	17.26	17.03	16.78	17.19	15.91
February .....	15.54	16.43	17.70	17.73	17.91	16.91	17.04	17.64	17.38	17.01	17.06	17.04	15.79
March .....	17.63	18.68	19.77	19.39	19.86	18.23	19.41	19.99	19.74	19.48	19.34	19.56	18.04
April .....	19.58	20.62	21.80	21.57	21.73	20.38	21.51	21.98	21.78	21.64	21.39	21.63	20.25
May .....	17.94	18.56	20.17	20.24	20.44	19.52	19.46	19.92	19.70	19.52	19.25	19.44	18.94
June .....	16.94	17.77	19.50	19.58	19.83	18.85	18.70	19.27	19.00	18.90	18.65	18.86	18.27
July .....	17.63	18.50	19.97	19.81	20.05	18.69	19.55	19.98	19.76	19.77	19.43	19.62	19.06
August .....	18.29	19.17	20.44	20.49	20.57	18.99	20.32	20.71	20.47	20.42	20.12	20.39	19.72
September .....	19.93	21.03	22.48	22.53	22.63	21.17	22.19	22.64	22.39	22.38	22.01	21.98	21.99
October .....	21.09	22.20	23.20	23.71	23.85	22.18	23.22	23.71	23.46	23.48	23.03	23.15	22.78
November .....	20.20	21.11	23.12	22.38	W	20.92	21.95	22.92	23.17	22.15	22.47	21.93	21.38
December .....	21.34	22.41	23.16	23.60	23.76	22.05	23.33	23.81	23.55	23.56	23.06	23.28	22.79
<b>1996</b>	<b>18.46</b>	<b>19.41</b>	<b>20.82</b>	<b>20.95</b>	<b>20.99</b>	<b>19.59</b>	<b>20.33</b>	<b>20.86</b>	<b>20.67</b>	<b>20.47</b>	<b>20.24</b>	<b>20.32</b>	<b>19.57</b>
<b>1997</b>													
January .....	21.76	22.68	23.97	23.71	23.95	22.31	23.44	23.94	23.66	23.72	23.11	23.52	22.93
February .....	19.38	19.89	22.68	20.95	21.06	19.63	20.54	21.09	20.81	20.61	19.62	21.01	19.88
March .....	17.83	18.34	20.14	19.70	19.68	18.39	19.08	19.59	19.15	19.16	18.30	19.13	18.50
April .....	16.63	17.19	18.95	18.35	18.04	17.35	18.00	18.51	18.11	18.09	17.36	17.79	17.40
May .....	17.23	18.03	18.82	18.56	18.64	17.99	18.95	19.50	19.12	18.93	18.30	18.98	18.37
June .....	15.88	16.49	17.96	16.93	16.98	16.25	17.17	17.88	17.59	17.09	16.51	17.12	16.55
July .....	15.89	16.68	17.88	17.14	17.05	16.49	17.54	18.19	17.90	17.46	16.90	17.51	16.94
August .....	16.19	17.06	18.09	17.24	17.09	16.52	17.71	18.38	18.00	17.63	17.09	17.56	17.11
September .....	16.41	17.05	17.80	16.97	16.71	16.22	17.58	18.24	17.80	17.54	17.07	17.58	17.74
October .....	17.66	18.55	19.11	W	18.34	17.45	19.16	19.68	19.29	19.11	18.44	19.15	18.52
November .....	16.83	17.47	18.68	18.40	18.81	16.70	18.03	18.60	18.21	17.89	17.30	18.31	17.29
December .....	15.04	15.69	16.99	16.85	17.13	15.12	16.32	16.96	16.53	16.14	15.66	17.26	15.47
<b>1997</b>	<b>17.23</b>	<b>17.92</b>	<b>19.25</b>	<b>18.49</b>	<b>18.79</b>	<b>17.56</b>	<b>18.60</b>	<b>19.11</b>	<b>18.73</b>	<b>18.63</b>	<b>17.97</b>	<b>18.75</b>	<b>18.10</b>
<b>1998</b>													
January .....	13.48	13.91	15.41	15.59	15.84	14.06	14.67	15.29	15.01	14.60	14.01	14.85	13.84
February .....	12.16	13.00	14.65	14.70	15.24	13.22	14.00	14.53	14.19	13.90	13.31	14.18	13.15
March .....	11.53	11.86	13.85	W	14.21	12.42	12.93	13.60	13.29	12.85	12.41	13.08	12.09
April .....	11.64	12.05	13.97	W	14.63	12.94	13.26	13.73	13.45	13.18	12.65	13.39	12.47
May .....	11.49	11.83	13.68	13.99	14.19	12.44	12.67	13.28	12.98	12.58	12.06	12.72	11.86
June .....	10.00	10.57	12.65	W	13.15	11.29	11.27	11.84	11.65	11.18	10.84	11.46	10.36
July .....	10.46	11.02	12.78	W	13.37	11.49	11.70	12.19	11.86	11.56	11.17	11.96	10.77
August .....	10.18	10.66	12.20	W	12.66	10.96	11.20	11.69	11.45	10.96	10.54	11.19	10.22
September .....	11.28	11.97	13.36	W	14.04	12.21	12.73	13.10	12.74	12.50	12.04	12.72	11.79
October .....	11.36	11.80	13.14	W	13.67	11.93	12.20	12.61	12.33	12.03	11.40	12.14	11.23

See footnotes at end of table.

**Table 21. Domestic Crude Oil First Purchase Prices**

(Dollars per Barrel) — Continued

Year Month	PAD District II (Continued)				PAD District III							
	ND	OH	OK	SD	Average	AL	AR	LA	MS	NM	TX	Federal Offshore Gulf
1978 .....	9.75	13.80	11.30	12.16	9.37	10.52	10.63	9.03	7.91	10.17	9.29	9.86
1979 .....	13.64	22.79	17.53	15.35	12.33	11.97	14.72	11.42	10.74	14.33	12.65	11.23
1980 .....	26.42	36.64	29.25	28.81	21.24	20.57	24.17	19.87	20.85	24.06	21.84	18.87
1981 .....	35.63	36.11	35.43	35.55	35.00	35.80	33.69	35.45	30.47	35.04	35.06	35.07
1982 .....	31.89	30.90	32.04	31.63	31.92	32.32	30.12	32.44	29.04	31.82	31.77	32.61
1983 .....	29.27	28.14	29.67	29.10	29.45	30.07	28.28	30.02	26.76	29.26	29.35	29.77
1984 .....	28.39	27.71	29.11	28.36	29.03	29.39	28.15	29.67	27.26	28.69	28.87	29.36
1985 .....	25.32	25.11	26.28	25.79	26.91	25.77	25.79	27.22	25.51	26.84	26.80	27.33
1986 .....	13.54	15.51	14.47	13.81	14.89	13.91	14.54	15.32	13.63	14.93	14.73	15.27
1987 .....	16.76	17.42	17.62	16.96	17.57	16.80	17.23	17.97	16.78	17.57	17.55	17.54
1988 .....	13.85	15.19	14.86	14.04	14.75	13.86	14.41	15.22	13.98	14.78	14.71	14.71
1989 .....	17.12	18.06	18.23	17.33	17.86	17.27	17.34	18.39	17.00	17.86	17.81	17.83
1990 .....	21.94	23.09	22.95	22.32	22.42	22.09	21.56	23.04	21.06	22.44	22.37	22.40
1991 .....	18.80	19.59	19.59	19.21	19.23	19.05	18.06	20.14	17.65	19.35	19.04	19.41
1992 .....	18.02	18.96	18.74	18.19	18.37	18.22	17.33	19.00	16.70	18.55	18.32	18.35
1993 .....	15.42	17.44	16.47	15.39	16.23	16.21	15.03	16.90	14.59	16.44	16.19	16.15
1994 .....	14.08	15.98	15.33	14.24	14.97	15.00	13.74	15.60	13.45	15.32	14.98	14.75
1995 .....	15.58	16.67	16.68	15.53	16.38	16.35	14.84	17.06	14.76	16.74	16.38	16.17
<b>1996</b>												
January .....	16.23	17.30	17.32	16.48	17.20	17.34	15.50	18.09	15.65	17.38	17.07	17.22
February .....	16.13	17.30	17.34	16.33	17.07	17.18	15.49	17.95	15.74	17.30	16.98	16.98
March .....	18.50	18.60	19.74	18.68	19.34	18.79	17.82	19.97	17.94	19.78	19.38	19.08
April .....	20.46	20.76	21.90	20.92	21.32	20.78	19.89	21.65	20.13	21.94	21.51	20.78
May .....	18.50	19.87	19.74	18.76	19.35	19.81	18.01	19.57	17.94	20.16	19.43	18.98
June .....	17.82	19.11	18.84	18.06	18.58	18.71	17.13	18.98	17.11	19.29	18.73	18.07
July .....	18.68	18.77	19.82	18.93	19.39	19.51	17.93	19.88	18.12	20.15	19.55	18.82
August .....	19.37	19.34	20.73	19.57	20.18	20.42	18.73	20.81	18.91	20.76	20.26	19.74
September .....	21.28	21.52	22.54	21.44	22.10	22.13	20.87	22.66	20.86	22.62	22.22	21.64
October .....	22.38	22.60	23.46	22.56	23.33	23.49	21.98	23.94	21.92	23.82	23.31	23.11
November .....	20.99	21.33	22.16	21.17	22.14	22.30	20.67	22.81	20.65	22.53	21.97	22.24
December .....	22.32	22.35	23.68	22.61	23.41	22.96	21.93	24.09	21.98	23.74	23.32	23.38
<b>1996</b>	<b>19.46</b>	<b>19.96</b>	<b>20.60</b>	<b>19.56</b>	<b>20.29</b>	<b>20.24</b>	<b>18.67</b>	<b>20.88</b>	<b>18.95</b>	<b>20.79</b>	<b>20.31</b>	<b>20.03</b>
<b>1997</b>												
January .....	22.29	22.59	23.82	22.78	23.58	23.05	22.36	24.30	22.03	23.96	23.48	23.56
February .....	19.49	19.92	20.94	19.72	20.71	20.70	19.36	21.40	19.15	21.02	20.49	20.90
March .....	18.15	18.64	19.43	18.31	19.01	18.83	18.02	19.52	17.51	19.45	18.95	18.96
April .....	17.18	17.51	18.37	17.30	17.83	17.53	17.04	18.40	16.43	18.40	17.88	17.52
May .....	18.13	18.18	19.35	18.17	18.85	18.76	17.93	19.35	17.37	19.26	18.97	18.45
June .....	16.30	16.49	17.59	16.48	17.24	17.19	16.19	17.66	15.53	17.60	17.24	17.14
July .....	16.60	16.61	18.03	16.65	17.56	17.31	16.52	17.98	15.88	17.89	17.58	17.44
August .....	16.79	16.71	18.23	W	17.85	17.56	16.70	18.27	16.05	18.13	17.86	17.76
September .....	16.71	16.33	18.06	W	17.78	17.63	16.62	18.27	15.92	18.01	17.74	17.77
October .....	18.30	17.81	19.68	W	19.25	19.05	18.11	19.88	17.51	19.51	19.25	19.09
November .....	17.16	16.89	18.53	W	18.28	18.17	17.05	18.75	16.32	18.51	18.19	18.40
December .....	15.34	15.36	16.78	15.87	16.43	16.42	15.24	17.00	14.64	16.57	16.32	16.56
<b>1997</b>	<b>17.63</b>	<b>17.77</b>	<b>19.05</b>	<b>17.80</b>	<b>18.69</b>	<b>18.58</b>	<b>17.58</b>	<b>19.22</b>	<b>16.94</b>	<b>19.02</b>	<b>18.66</b>	<b>18.63</b>
<b>1998</b>												
January .....	13.69	14.28	15.16	W	14.70	14.73	13.57	15.23	13.14	14.90	14.70	14.59
February .....	13.05	13.35	14.48	13.03	13.85	13.84	12.91	14.33	12.24	14.16	13.95	13.60
March .....	11.92	12.58	13.41	W	12.68	12.54	11.83	13.03	10.92	13.08	12.80	12.44
April .....	12.32	13.12	13.72	W	12.72	12.60	12.12	12.99	11.04	13.33	13.04	12.19
May .....	11.68	12.63	13.13	W	12.61	12.41	11.50	13.04	10.50	12.76	12.62	12.57
June .....	10.29	11.60	11.72	W	11.27	11.15	10.16	11.58	8.93	11.26	11.24	11.37
July .....	10.91	11.70	12.06	12.69	11.61	11.40	10.48	11.97	9.29	11.66	11.74	11.45
August .....	10.37	11.20	11.69	W	11.19	11.10	9.90	11.60	8.89	11.28	11.34	11.00
September .....	11.87	12.41	13.30	W	12.59	12.43	11.36	13.15	10.45	12.77	12.74	12.28
October .....	11.47	12.06	12.66	W	12.26	12.02	10.90	12.60	9.94	12.40	12.44	12.07

See footnotes at end of table.

**Table 21. Domestic Crude Oil First Purchase Prices**

(Dollars per Barrel) — Continued

Year Month	PAD District IV					PAD District V				
	Average	CO	MT	UT	WY	Average	AK North Slope	AK Other	CA	Federal Offshore California
1978 .....	9.50	10.84	9.04	9.98	9.16	6.60	5.21	5.45	8.58	6.10
1979 .....	11.98	13.28	12.03	11.41	11.73	11.17	10.57	6.22	12.78	8.06
1980 .....	21.29	22.91	20.53	19.79	21.34	19.09	16.87	10.25	23.87	16.28
1981 .....	33.38	35.69	34.69	34.14	32.30	24.79	23.23	30.15	26.80	24.56
1982 .....	30.14	31.56	31.25	30.50	29.37	21.84	19.92	27.74	24.58	23.37
1983 .....	27.81	28.92	28.80	28.12	27.19	19.66	17.69	23.59	22.61	20.54
1984 .....	27.18	28.09	28.07	27.21	26.73	19.52	17.91	24.37	22.09	20.41
1985 .....	24.78	25.64	25.29	23.98	24.67	19.11	16.98	22.46	22.14	20.08
1986 .....	13.24	13.98	13.58	13.33	12.94	8.53	6.45	13.13	11.90	9.48
1987 .....	16.77	17.71	16.57	17.22	16.45	11.89	10.83	15.48	13.92	11.82
1988 .....	13.85	14.83	13.84	14.24	13.47	9.28	8.43	12.92	10.97	9.41
1989 .....	17.37	18.86	17.03	18.63	16.73	12.71	12.00	16.17	14.06	12.64
1990 .....	21.68	23.16	21.61	22.61	21.04	16.15	15.23	21.16	17.81	16.21
1991 .....	18.21	19.95	18.17	19.99	17.33	12.30	11.57	15.36	13.72	11.33
1992 .....	17.27	19.04	17.08	19.39	16.38	12.32	11.73	15.56	13.55	10.78
1993 .....	15.30	16.59	14.70	17.48	14.59	11.23	10.84	14.11	12.11	9.20
1994 .....	14.27	15.44	13.43	16.38	13.67	10.53	9.77	13.87	12.12	9.32
1995 .....	15.90	16.67	14.93	17.71	15.50	12.08	11.12	15.28	14.00	10.81
<b>1996</b>										
January .....	16.73	17.26	15.73	18.37	16.38	12.93	12.13	15.67	14.55	11.23
February .....	16.66	17.28	15.68	18.29	16.28	13.40	12.76	15.43	14.87	11.63
March .....	19.01	19.58	18.03	20.65	18.62	15.18	14.23	17.40	17.11	13.58
April .....	20.86	21.72	20.13	22.79	20.29	16.93	16.08	19.69	18.71	15.13
May .....	19.12	19.60	17.92	20.69	18.85	15.73	15.82	17.58	15.96	13.17
June .....	18.38	18.84	17.20	19.81	18.15	14.49	14.24	17.19	15.23	12.40
July .....	19.23	19.87	18.15	20.49	18.98	14.85	14.62	17.96	15.53	12.67
August .....	19.82	20.49	18.77	20.99	19.59	15.34	15.29	18.20	15.71	13.06
September .....	21.69	22.35	20.63	22.70	21.48	16.59	16.30	20.07	17.31	14.58
October .....	22.82	23.40	21.87	23.74	22.63	17.79	17.45	21.19	18.50	16.25
November .....	21.39	22.28	20.51	21.94	21.19	17.42	17.27	19.99	17.93	15.47
December .....	22.66	23.70	21.88	23.06	22.42	18.33	17.82	21.67	19.36	17.09
<b>1996</b> .....	<b>19.85</b>	<b>20.47</b>	<b>18.89</b>	<b>21.10</b>	<b>19.56</b>	<b>15.73</b>	<b>15.32</b>	<b>18.43</b>	<b>16.72</b>	<b>13.82</b>
<b>1997</b>										
January .....	22.79	23.72	21.85	23.49	22.55	19.19	18.84	22.76	20.04	17.40
February .....	19.73	20.80	18.59	20.50	19.45	17.50	17.72	19.83	17.52	14.71
March .....	18.32	19.55	17.51	18.84	17.99	16.04	16.09	18.49	16.39	13.47
April .....	17.16	18.39	16.39	17.76	16.81	14.80	14.70	16.48	15.47	12.30
May .....	18.11	19.42	17.22	18.72	17.74	14.73	14.45	16.98	15.61	12.45
June .....	16.35	17.64	15.61	17.24	15.90	13.84	13.70	15.12	14.54	11.38
July .....	16.69	18.01	15.92	17.46	16.29	13.29	12.97	15.19	14.17	11.20
August .....	16.99	18.15	16.18	17.83	16.61	13.64	12.94	15.65	14.92	12.30
September .....	16.81	18.09	15.99	17.58	16.42	14.44	14.11	15.74	15.28	12.57
October .....	18.34	19.74	17.64	19.22	17.89	15.24	14.52	17.20	16.59	14.19
November .....	17.05	18.38	16.39	18.26	16.51	14.71	14.54	16.62	15.30	12.70
December .....	15.42	16.72	15.37	16.44	14.71	13.02	12.81	W	13.66	11.19
<b>1997</b> .....	<b>17.80</b>	<b>19.03</b>	<b>17.00</b>	<b>18.57</b>	<b>17.41</b>	<b>15.06</b>	<b>14.84</b>	<b>17.43</b>	<b>15.78</b>	<b>12.97</b>
<b>1998</b>										
January .....	13.60	15.10	13.72	14.84	12.79	11.54	11.82	W	11.53	9.11
February .....	12.96	14.35	13.10	14.17	12.16	9.46	9.15	W	10.27	7.53
March .....	11.84	13.35	12.08	12.93	10.97	9.67	10.29	W	9.25	6.52
April .....	12.31	13.52	12.40	13.47	11.54	9.72	10.08	W	9.57	6.85
May .....	11.93	12.99	11.82	13.08	11.19	9.66	10.17	11.27	9.39	6.53
June .....	10.36	11.59	10.40	11.49	9.63	8.01	7.74	10.87	8.64	6.03
July .....	10.92	12.05	11.01	12.05	10.20	8.63	8.25	11.83	9.42	6.75
August .....	10.25	11.20	10.20	11.60	9.58	8.70	8.39	11.51	9.39	6.74
September .....	11.82	12.91	11.74	12.96	11.19	9.36	8.69	12.90	10.41	7.84
October .....	11.55	12.41	11.33	12.73	11.04	10.06	9.89	12.46	10.61	8.02

W = Withheld to avoid disclosure of individual company data.

Notes: The actual domestic average price represents the average price at the lease (or wellhead) at which domestic crude oil is purchased.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form ERA-182, "Domestic Crude Oil First Purchaser's Report," January 1978 through December 1982; Form EIA-182, "Domestic Crude Oil First Purchase Report," January 1983 to present.

**Table 22. Domestic Crude Oil First Purchase Prices for Selected Crude Streams**  
(Dollars per Barrel)

Year Month	Alaska North Slope	California Midway- Sunset	California Kern River	California Wilmington	Louisiana South Mix	North Dakota Sweet	West Texas Intermediate	West Texas Sour	Wyoming Sour
<b>1994</b> .....	<b>9.77</b>	<b>11.79</b>	<b>11.65</b>	<b>12.47</b>	<b>15.71</b>	<b>14.54</b>	<b>15.65</b>	<b>14.16</b>	<b>11.87</b>
<b>1995</b> .....	<b>11.12</b>	<b>13.37</b>	<b>13.59</b>	<b>14.70</b>	<b>17.14</b>	<b>16.02</b>	<b>17.03</b>	<b>15.52</b>	<b>14.06</b>
<b>1996</b>									
January .....	12.13	13.92	14.11	14.90	18.26	16.67	17.68	16.15	15.13
February .....	12.76	14.33	14.48	15.05	18.06	16.60	17.62	16.09	14.94
March .....	14.23	16.57	16.75	17.27	20.05	18.95	19.99	18.57	17.30
April .....	16.08	17.97	18.12	18.80	21.69	20.85	22.21	20.63	19.05
May .....	15.82	14.88	15.19	15.83	19.58	18.95	20.18	18.61	17.43
June .....	14.24	14.11	14.41	15.18	18.92	18.27	19.41	17.90	16.74
July .....	14.62	14.34	14.69	15.70	19.80	19.11	20.23	18.72	17.49
August .....	15.29	14.38	14.73	16.85	20.76	19.78	20.94	19.44	18.20
September .....	16.30	15.85	16.23	17.22	22.66	21.67	22.85	21.46	20.08
October .....	17.45	17.15	17.50	19.19	23.85	22.81	23.97	22.48	21.19
November .....	17.27	16.72	17.03	17.95	22.83	21.36	22.65	21.19	19.63
December .....	17.82	18.19	18.49	19.41	24.11	22.71	24.07	22.35	20.83
<b>1996</b> .....	<b>15.32</b>	<b>15.70</b>	<b>15.97</b>	<b>17.13</b>	<b>20.89</b>	<b>19.82</b>	<b>20.96</b>	<b>19.49</b>	<b>18.16</b>
<b>1997</b>									
January .....	18.84	18.86	19.05	20.06	24.17	22.90	24.09	22.62	20.87
February .....	17.72	15.98	16.29	17.30	21.31	19.92	21.15	19.54	17.52
March .....	16.09	15.25	15.40	16.39	19.56	18.59	19.72	17.67	15.92
April .....	14.70	14.25	14.61	15.61	18.31	17.56	18.66	16.74	14.84
May .....	14.45	14.86	14.99	16.23	19.39	18.44	19.70	17.99	15.58
June .....	13.70	13.64	13.72	14.94	17.60	16.55	17.84	16.30	13.83
July .....	12.97	13.36	13.56	13.94	17.96	16.87	18.19	16.72	14.34
August .....	12.94	14.20	14.59	W	18.23	17.08	18.42	17.03	14.61
September .....	14.11	14.58	14.71	W	18.26	16.94	18.30	16.89	14.43
October .....	14.52	15.96	16.09	W	19.88	18.55	19.82	18.50	15.78
November .....	14.54	14.50	14.36	W	18.78	17.38	18.78	17.25	14.14
December .....	12.81	12.81	12.96	W	17.03	15.55	16.79	15.46	12.13
<b>1997</b> .....	<b>14.84</b>	<b>14.88</b>	<b>15.02</b>	<b>16.44</b>	<b>19.22</b>	<b>17.96</b>	<b>19.27</b>	<b>17.77</b>	<b>15.39</b>
<b>1998</b>									
January .....	11.82	10.52	10.64	W	15.24	13.88	15.35	13.69	10.37
February .....	9.15	8.97	9.11	W	14.36	13.22	14.68	12.93	9.53
March .....	10.29	7.79	8.06	W	12.99	12.11	13.52	11.67	8.47
April .....	10.08	8.14	8.40	W	12.87	12.52	13.74	11.99	8.89
May .....	10.17	8.16	8.37	W	12.97	11.88	13.31	11.76	8.45
June .....	7.74	7.50	7.62	W	11.56	10.49	11.92	10.45	7.07
July .....	8.25	8.23	8.51	W	11.93	11.12	12.30	11.06	7.73
August .....	8.39	8.23	8.46	W	11.53	10.70	11.81	10.73	7.23
September .....	8.69	9.19	9.41	W	13.00	12.18	13.25	12.02	8.99
October .....	9.89	9.44	9.71	W	12.85	11.96	12.88	11.91	9.02

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report."

**Table 23. Domestic Crude Oil First Purchase Prices by API Gravity**

(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 or Greater
<b>1994</b> .....	<b>11.83</b>	<b>12.83</b>	<b>9.79</b>	<b>14.72</b>	<b>14.79</b>	<b>15.62</b>
<b>1995</b> .....	<b>13.26</b>	<b>14.64</b>	<b>11.14</b>	<b>16.15</b>	<b>16.24</b>	<b>16.98</b>
<b>1996</b>						
January .....	13.80	15.60	12.16	17.04	16.97	17.65
February .....	14.16	15.49	12.78	16.84	16.94	17.60
March .....	16.32	17.85	14.25	19.10	19.24	19.92
April .....	17.84	19.70	16.11	20.89	21.23	22.08
May .....	15.22	17.88	15.84	18.93	19.47	20.16
June .....	14.46	17.22	14.26	18.16	18.72	19.37
July .....	14.77	17.92	14.65	18.97	19.54	20.20
August .....	14.97	18.54	15.32	19.82	20.12	20.92
September .....	16.62	20.40	16.34	21.77	22.04	22.81
October .....	17.90	21.45	17.50	22.96	23.11	23.96
November .....	17.21	20.14	17.29	21.91	21.86	22.64
December .....	18.66	21.36	17.86	23.08	23.13	23.99
<b>1996</b> .....	<b>16.01</b>	<b>18.61</b>	<b>15.35</b>	<b>19.97</b>	<b>20.23</b>	<b>20.91</b>
<b>1997</b>						
January .....	19.26	21.50	18.87	23.25	23.40	24.07
February .....	16.63	18.34	17.74	20.36	20.62	21.19
March .....	15.75	16.90	16.11	18.64	19.23	19.65
April .....	14.50	15.70	14.72	17.42	18.10	18.62
May .....	15.41	16.33	14.48	18.35	18.81	19.64
June .....	14.16	14.71	13.74	16.87	17.13	17.81
July .....	13.85	15.15	13.00	17.23	17.39	18.14
August .....	14.86	15.50	12.97	17.54	17.68	18.36
September .....	15.07	15.36	14.14	17.50	17.58	18.22
October .....	16.47	16.79	14.56	18.97	19.11	19.73
November .....	15.08	15.21	14.57	18.02	17.98	18.71
December .....	13.50	13.60	12.84	16.17	16.29	16.80
<b>1997</b> .....	<b>15.44</b>	<b>16.27</b>	<b>14.87</b>	<b>18.38</b>	<b>18.62</b>	<b>19.26</b>
<b>1998</b>						
January .....	11.26	11.65	11.84	14.46	14.64	15.28
February .....	9.75	10.69	9.19	13.61	13.91	14.58
March .....	8.78	9.71	10.31	12.41	12.72	13.44
April .....	9.09	10.11	10.10	12.45	13.06	13.62
May .....	9.00	9.86	10.18	12.49	12.53	13.20
June .....	8.30	8.40	7.77	11.13	11.09	11.82
July .....	9.09	9.23	8.28	11.54	11.61	12.21
August .....	9.04	8.72	8.41	11.15	11.19	11.72
September .....	10.06	10.35	8.72	12.50	12.59	13.19
October .....	10.36	10.36	9.90	12.30	12.38	12.69

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report."



**Table 24. F.O.B.<sup>a</sup> Costs of Imported Crude Oil by Selected Country**  
(Dollars per Barrel)

Year Month	Selected Countries							Persian Gulf <sup>b</sup>	Total OPEC <sup>c</sup>	Non OPEC
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
<b>1978</b> .....	13.32	—	13.24	14.05	12.70	13.82	12.38	12.77	13.31	13.23
<b>1979</b> .....	19.85	—	20.27	21.69	17.28	21.70	16.90	18.77	19.88	20.92
<b>1980</b> .....	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
<b>1981</b> .....	35.55	—	33.01	38.31	32.60	36.06	28.95	33.00	35.17	35.12
<b>1982</b> .....	31.86	—	28.08	35.13	33.73	33.42	23.74	33.55	33.48	30.58
<b>1983</b> .....	28.14	—	25.20	29.81	27.53	29.91	21.48	27.70	28.46	27.20
<b>1984</b> .....	27.46	—	26.39	29.51	27.67	28.87	24.23	27.48	27.79	27.45
<b>1985</b> .....	26.30	—	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
<b>1986</b> .....	13.30	12.34	11.84	14.35	11.36	13.84	10.92	11.35	12.21	12.87
<b>1987</b> .....	17.27	17.84	16.36	18.47	15.12	18.28	15.08	15.97	16.43	16.99
<b>1988</b> .....	13.70	13.61	12.18	15.16	12.16	14.80	12.96	12.38	13.43	13.05
<b>1989</b> .....	17.66	17.89	15.96	18.31	16.29	17.89	16.09	16.61	17.06	16.72
<b>1990</b> .....	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
<b>1991</b> .....	18.47	18.49	15.37	20.29	14.62	20.81	14.91	15.22	16.99	16.77
<b>1992</b> .....	18.41	18.02	15.26	19.98	15.85	19.61	14.39	16.35	16.87	16.66
<b>1993</b> .....	16.23	15.87	13.74	17.79	13.77	16.64	12.46	14.21	14.78	14.65
<b>1994</b> .....	15.40	14.99	13.68	16.32	14.12	15.66	12.21	13.97	14.00	14.34
<b>1995</b> .....	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
<b>1996</b>										
January .....	16.95	17.73	16.52	18.63	W	W	14.12	W	15.86	16.42
February .....	17.91	18.09	16.59	18.53	W	W	15.22	W	16.89	16.83
March .....	19.78	20.02	18.39	20.44	18.29	19.42	17.78	18.62	18.77	18.77
April .....	20.96	22.65	19.63	21.49	W	W	17.99	W	18.75	20.20
May .....	19.72	20.09	17.93	20.13	W	19.02	16.35	W	17.72	18.83
June .....	18.60	19.49	17.05	19.25	17.96	W	16.08	17.70	17.21	17.94
July .....	19.72	19.72	17.85	19.90	18.48	W	16.72	18.31	17.78	18.62
August .....	20.33	20.79	18.89	21.13	20.16	18.82	17.35	19.98	18.99	19.55
September .....	22.26	22.79	20.96	22.80	20.60	W	19.66	20.72	20.57	21.44
October .....	23.05	23.57	22.40	24.71	W	W	20.29	W	21.85	22.59
November .....	22.38	23.25	20.96	24.43	21.90	22.35	19.62	22.11	21.04	21.48
December .....	23.22	24.56	21.83	24.39	19.24	W	20.41	19.35	21.01	22.04
<b>1996</b> .....	<b>20.71</b>	<b>21.33</b>	<b>19.14</b>	<b>21.27</b>	<b>19.28</b>	<b>19.43</b>	<b>17.73</b>	<b>19.22</b>	<b>18.94</b>	<b>19.65</b>
<b>1997</b>										
January .....	23.20	24.14	20.98	23.45	17.37	W	19.29	17.37	20.20	21.88
February .....	21.35	21.12	18.57	21.53	W	W	16.68	W	17.94	19.71
March .....	18.66	19.41	17.00	19.02	W	—	15.50	W	16.49	17.68
April .....	17.05	17.87	15.94	17.97	15.82	W	14.81	15.95	15.92	16.44
May .....	18.25	17.95	16.84	18.99	15.64	19.03	15.30	15.70	16.28	17.33
June .....	17.84	16.87	15.70	18.22	15.26	18.09	14.66	15.11	15.61	16.36
July .....	17.72	17.73	15.99	19.12	15.14	17.40	15.02	15.19	16.02	16.65
August .....	17.96	18.42	16.29	18.98	16.89	18.17	15.33	16.47	16.37	16.96
September .....	18.15	18.52	16.02	19.35	15.33	18.44	15.25	16.15	16.51	16.99
October .....	19.33	19.52	17.51	20.03	W	W	15.81	W	16.32	18.15
November .....	18.54	18.24	16.04	19.11	W	W	14.39	W	14.99	17.02
December .....	16.58	17.18	13.79	17.39	W	W	12.51	W	13.31	14.97
<b>1997</b> .....	<b>18.81</b>	<b>18.85</b>	<b>16.72</b>	<b>19.43</b>	<b>15.16</b>	<b>18.59</b>	<b>15.33</b>	<b>15.24</b>	<b>16.26</b>	<b>17.51</b>
<b>1998</b>										
January .....	14.47	15.36	12.11	15.21	W	W	11.29	W	12.24	13.12
February .....	13.12	14.27	11.48	13.78	W	W	10.34	W	11.42	12.10
March .....	12.53	13.10	9.77	13.56	W	W	9.70	W	10.92	11.22
April .....	12.93	13.48	11.01	13.86	W	W	10.32	7.92	10.60	11.63
May .....	13.79	13.08	11.25	14.13	7.63	W	9.78	7.90	10.53	11.94
June .....	11.79	11.85	10.04	11.57	8.56	W	9.16	8.71	9.76	10.51
July .....	11.14	12.24	10.44	11.77	9.06	W	8.99	8.95	9.76	10.83
August .....	11.37	12.12	9.85	12.23	9.77	11.13	8.54	9.68	9.69	10.60
September .....	12.59	13.20	11.14	13.92	11.17	W	10.46	11.20	11.43	11.95
October .....	12.21	13.38	11.07	13.10	10.39	W	9.75	10.33	10.27	11.64

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Free on Board. See Glossary.

<sup>b</sup> Includes Baharain, Iran, Iraq, Kuwait, Neutral Zone, Qatar, Saudi Arabia, and United Arab Emirates.

<sup>c</sup> Includes Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. In addition, it included Ecuador in 1978 through 1992 and Gabon in 1978 through 1995.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

**Table 25. Landed Costs of Imported Crude Oil by Selected Country**  
(Dollars per Barrel)

Year Month	Selected Countries								Persian Gulf <sup>a</sup>	Total OPEC <sup>b</sup>	Non OPEC
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
1978 .....	14.07	14.41	—	13.56	14.88	13.94	14.53	12.84	14.01	14.34	14.38
1979 .....	21.06	20.22	—	20.77	22.97	18.95	22.97	17.65	20.42	21.29	22.10
1980 .....	34.76	30.11	W	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1981 .....	36.84	32.32	—	33.70	39.66	34.20	37.29	29.91	34.61	36.60	36.14
1982 .....	33.08	27.15	—	28.63	36.16	34.99	34.25	24.93	34.94	34.81	31.47
1983 .....	29.31	25.63	—	25.78	30.85	29.27	30.87	22.94	29.37	29.84	28.08
1984 .....	28.49	26.56	—	26.85	30.36	29.20	29.45	25.19	29.07	29.06	28.14
1985 .....	27.39	25.71	—	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1986 .....	14.09	13.43	12.85	12.17	15.29	12.84	14.63	11.52	12.92	13.46	13.52
1987 .....	18.20	17.04	18.43	16.69	19.32	16.81	18.78	15.76	17.47	17.64	17.66
1988 .....	14.48	13.50	14.47	12.58	15.88	13.37	15.82	13.66	13.51	14.18	13.96
1989 .....	18.36	16.81	18.10	16.35	19.19	17.34	18.74	16.78	17.37	17.78	17.54
1990 .....	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1991 .....	19.90	17.16	19.55	15.89	21.39	17.22	21.37	15.92	17.34	18.08	17.93
1992 .....	19.36	17.04	18.46	15.60	20.78	17.48	20.63	15.13	17.58	17.81	17.67
1993 .....	17.40	15.27	16.54	14.11	18.73	15.40	17.92	13.39	15.26	15.68	15.78
1994 .....	16.36	14.83	15.80	14.09	17.21	15.11	16.64	13.12	15.00	15.08	15.29
1995 .....	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
<b>1996</b>											
January .....	18.16	16.07	18.55	16.95	19.65	17.98	18.49	15.12	17.86	17.41	17.23
February .....	18.82	16.33	18.82	17.07	19.47	18.76	19.39	16.02	18.81	18.06	17.58
March .....	20.85	18.55	20.57	18.95	21.25	19.59	19.25	18.63	19.87	19.81	19.42
April .....	21.41	21.10	23.37	20.23	22.32	20.55	20.76	19.14	20.48	20.26	21.11
May .....	20.88	20.16	21.04	18.67	21.17	19.55	21.22	17.42	19.44	19.17	19.97
June .....	19.62	19.20	20.08	17.75	20.11	18.92	20.40	17.14	18.79	18.64	19.00
July .....	20.70	19.72	20.62	18.55	20.85	19.77	19.79	17.55	19.58	19.15	19.54
August .....	21.58	20.44	21.47	19.51	21.95	20.70	20.56	18.22	20.52	20.16	20.44
September .....	23.40	21.85	23.47	21.59	23.40	21.81	21.69	20.37	21.80	21.66	22.23
October .....	23.94	22.53	24.42	22.84	25.57	22.91	23.12	20.89	22.77	22.78	23.30
November .....	23.47	21.33	23.81	21.22	25.19	22.66	24.10	20.40	22.64	22.15	22.31
December .....	24.48	21.32	25.20	22.06	25.42	21.93	24.23	21.23	22.04	22.22	22.73
<b>1996</b> .....	<b>21.86</b>	<b>19.94</b>	<b>22.02</b>	<b>19.64</b>	<b>21.95</b>	<b>20.49</b>	<b>20.88</b>	<b>18.59</b>	<b>20.45</b>	<b>20.14</b>	<b>20.47</b>
<b>1997</b>											
January .....	24.45	21.79	24.98	21.52	24.67	20.90	24.18	20.42	20.88	21.49	22.87
February .....	22.54	19.75	21.72	19.11	23.26	18.33	24.33	17.58	18.34	19.19	20.59
March .....	20.32	18.44	20.39	17.43	20.58	18.04	23.59	16.57	18.13	18.05	18.83
April .....	18.66	17.25	18.76	16.60	19.27	17.56	18.80	16.05	17.39	17.46	17.57
May .....	19.58	17.47	18.76	17.59	19.87	17.10	20.04	16.42	17.08	17.58	18.15
June .....	19.33	16.31	17.74	16.24	19.57	16.93	19.54	15.70	16.85	17.01	17.24
July .....	18.59	16.61	18.57	16.50	20.02	17.02	18.59	15.99	16.82	17.12	17.40
August .....	19.14	17.16	18.98	16.84	20.01	18.33	19.33	16.23	18.05	17.80	17.76
September .....	19.50	16.97	19.36	16.69	20.35	18.02	19.56	16.14	17.86	17.86	17.84
October .....	20.83	18.33	20.45	18.11	21.14	17.10	18.85	16.76	17.35	17.79	19.19
November .....	19.64	16.78	19.28	16.84	20.55	15.43	19.93	15.41	15.75	16.63	17.99
December .....	18.24	15.13	18.12	14.45	19.03	14.79	18.61	13.42	15.06	15.01	16.30
<b>1997</b> .....	<b>20.24</b>	<b>17.63</b>	<b>19.71</b>	<b>17.30</b>	<b>20.64</b>	<b>17.52</b>	<b>20.64</b>	<b>16.35</b>	<b>17.44</b>	<b>17.73</b>	<b>18.45</b>
<b>1998</b>											
January .....	16.14	13.25	16.39	12.69	17.00	13.43	W	12.30	13.49	13.89	14.29
February .....	14.52	12.18	15.37	12.12	15.32	13.05	15.63	11.28	13.01	12.98	13.24
March .....	14.06	11.57	13.84	10.37	14.71	12.28	14.82	10.66	12.38	12.44	12.35
April .....	14.25	11.42	14.17	11.65	14.67	11.31	15.19	11.16	11.53	11.98	12.67
May .....	14.92	11.28	13.75	11.76	14.91	10.69	14.52	10.49	10.75	11.68	12.81
June .....	12.98	10.87	12.45	10.59	13.31	10.69	12.58	9.92	10.64	11.07	11.47
July .....	12.44	11.28	12.73	10.95	12.88	11.02	W	9.78	10.94	11.06	11.74
August .....	12.65	11.17	12.84	10.33	13.20	11.12	12.89	9.33	11.12	10.99	11.60
September .....	13.76	12.74	13.79	11.54	14.66	12.13	13.48	11.04	12.20	12.29	12.85
October .....	13.22	12.44	14.03	11.48	14.34	11.65	13.20	10.53	11.87	11.72	12.54

Dash (—) = No data reported.

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<sup>a</sup> Includes Bahrain, Iran, Iraq, Kuwait, Neutral Zone, Qatar, Saudi Arabia, and United Arab Emirates.

<sup>b</sup> Includes Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. In addition, it included Ecuador in 1978 through 1992 and Gabon in 1978 through 1995.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

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**Table 26. F.O.B.<sup>a</sup> Costs of Imported Crude Oil by API Gravity**  
(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978 .....	11.98	11.74	12.51	13.06	13.62	14.00	14.01
1979 .....	14.43	18.54	19.91	19.54	21.24	21.65	19.77
1980 .....	23.09	28.76	30.72	30.31	34.33	35.39	36.13
1981 .....	26.70	31.20	33.61	34.38	36.85	38.42	38.59
1982 .....	23.08	25.82	31.48	33.56	34.29	34.82	34.48
1983 .....	21.77	24.27	27.38	29.04	29.74	30.10	30.12
1984 .....	24.10	25.31	27.22	28.55	29.18	29.40	28.02
1985 .....	23.45	24.27	24.86	26.46	27.43	27.79	26.90
1986 .....	10.51	10.96	12.25	12.83	13.83	14.19	13.76
1987 .....	15.21	15.37	15.76	17.24	17.99	18.03	17.37
1988 .....	11.92	11.65	12.48	13.82	14.38	14.89	15.25
1989 .....	14.00	14.89	16.95	17.50	18.09	18.23	18.05
1990 .....	15.98	18.00	20.54	20.77	22.19	22.78	22.28
1991 .....	11.91	13.72	16.33	17.67	20.15	19.69	20.85
1992 .....	11.83	13.96	16.74	18.02	19.50	19.58	20.05
1993 .....	11.33	12.22	15.14	15.44	17.04	17.53	17.61
1994 .....	11.43	12.19	14.45	14.93	15.91	15.70	16.11
1995 .....	13.35	13.93	16.14	16.19	17.25	17.30	17.32
1996 .....							
January .....	13.37	13.78	16.32	17.32	18.36	18.65	W
February .....	14.23	14.73	17.14	18.38	18.10	19.58	W
March .....	15.41	16.74	19.23	19.51	20.27	W	21.05
April .....	15.57	17.62	20.70	19.82	21.59	W	W
May .....	14.81	16.32	19.02	18.88	19.91	20.09	20.04
June .....	14.93	15.97	18.12	18.22	19.21	18.91	W
July .....	15.44	16.41	18.79	18.86	20.09	20.29	W
August .....	16.18	17.08	19.81	20.11	21.08	20.29	20.89
September .....	17.99	19.26	21.64	21.73	22.94	W	21.56
October .....	18.18	20.18	22.92	22.52	24.46	W	23.70
November .....	17.80	18.94	21.76	22.02	23.59	23.07	W
December .....	18.07	19.22	22.19	21.93	24.41	24.38	24.99
1996 .....	16.01	17.26	19.90	20.04	21.20	21.00	21.59
1997 .....							
January .....	16.99	18.37	22.62	21.89	24.21	22.07	22.08
February .....	13.75	16.25	20.15	19.27	21.61	21.61	W
March .....	13.39	14.96	17.91	17.53	19.58	21.01	19.69
April .....	13.11	14.50	16.31	16.90	18.08	W	20.51
May .....	13.17	15.29	17.01	17.33	19.10	18.71	W
June .....	13.10	14.24	15.91	16.44	18.03	18.86	18.12
July .....	13.50	14.77	16.82	17.06	18.45	–	18.71
August .....	13.26	15.04	16.77	17.55	18.82	19.00	18.93
September .....	13.39	14.84	17.31	17.68	18.79	19.09	19.07
October .....	13.13	15.52	17.28	18.14	19.94	20.67	W
November .....	11.72	14.16	16.45	17.01	19.05	18.14	W
December .....	9.63	11.99	15.18	15.29	17.14	17.17	W
1997 .....	13.12	14.94	17.49	17.61	19.37	19.88	19.77
1998 .....							
January .....	8.32	10.13	13.32	14.31	15.38	15.45	–
February .....	7.60	9.41	11.83	12.97	14.15	14.82	W
March .....	7.50	8.68	11.82	12.30	13.44	14.02	W
April .....	8.08	9.42	10.77	12.57	13.58	14.19	–
May .....	7.37	9.29	10.06	12.58	13.69	14.29	13.72
June .....	7.19	8.76	10.28	10.74	12.06	12.72	11.86
July .....	6.99	8.90	10.07	11.28	12.36	12.71	12.89
August .....	6.12	8.65	9.68	11.37	12.03	12.54	12.22
September .....	8.34	9.90	11.66	13.17	13.38	14.20	W
October .....	7.53	9.69	10.62	11.80	13.17	12.79	13.44

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<sup>a</sup> Free on Board. See Glossary.

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**Table 27. Landed Costs of Imported Crude Oil by API Gravity**

(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978 .....	12.75	13.11	13.76	14.10	14.69	14.87	15.16
1979 .....	15.57	20.05	20.88	21.01	22.61	23.06	21.23
1980 .....	24.54	29.65	31.83	31.73	35.81	36.85	37.57
1981 .....	27.94	32.00	34.86	35.71	38.36	39.78	39.97
1982 .....	24.17	26.46	32.62	34.76	35.43	35.78	35.81
1983 .....	23.17	24.95	28.62	30.25	30.96	31.28	31.27
1984 .....	25.08	25.97	28.38	29.58	30.16	30.16	29.05
1985 .....	24.33	24.65	26.17	27.10	28.29	28.39	27.73
1986 .....	11.30	11.49	13.28	13.59	14.99	14.80	15.37
1987 .....	16.14	15.87	17.21	18.16	18.72	18.89	18.57
1988 .....	12.75	12.11	13.54	14.35	15.21	15.74	16.24
1989 .....	14.90	15.42	17.59	17.87	18.74	19.05	19.13
1990 .....	16.82	18.54	21.59	21.18	22.47	23.47	23.41
1991 .....	13.06	14.41	17.17	18.65	20.86	20.88	22.15
1992 .....	12.89	14.58	17.39	18.50	20.11	20.55	20.95
1993 .....	12.44	12.96	15.72	16.06	17.88	18.38	18.22
1994 .....	12.42	12.93	15.10	15.61	16.65	16.64	16.91
1995 .....	14.43	14.81	16.84	17.13	17.96	18.17	17.90
<b>1996</b> .....	<b>17.18</b>	<b>18.11</b>	<b>20.53</b>	<b>20.87</b>	<b>21.74</b>	<b>21.71</b>	<b>22.28</b>
January .....	14.41	14.81	17.62	18.12	18.80	19.22	18.47
February .....	15.29	15.52	17.66	18.86	18.80	20.03	19.74
March .....	16.57	17.52	19.84	20.30	20.54	21.63	21.48
April .....	17.04	18.65	21.71	20.94	22.12	21.86	22.15
May .....	15.97	17.39	19.92	19.90	21.01	21.48	21.57
June .....	16.10	16.90	19.17	19.20	20.09	20.30	20.63
July .....	16.63	17.28	19.70	19.75	20.66	21.02	20.96
August .....	17.33	18.00	20.52	20.86	21.72	21.54	21.81
September .....	19.12	19.91	22.55	22.38	23.33	22.93	22.54
October .....	19.23	20.97	23.32	23.34	24.80	24.73	24.87
November .....	18.99	19.57	22.43	22.95	24.10	24.61	24.37
December .....	19.17	19.92	22.96	22.71	24.77	25.19	25.53
<b>1996</b> .....	<b>17.18</b>	<b>18.11</b>	<b>20.53</b>	<b>20.87</b>	<b>21.74</b>	<b>21.71</b>	<b>22.28</b>
<b>1997</b> .....	<b>14.42</b>	<b>15.79</b>	<b>18.57</b>	<b>18.42</b>	<b>20.34</b>	<b>21.09</b>	<b>20.85</b>
January .....	18.57	19.34	23.73	22.13	24.80	23.89	23.89
February .....	14.79	17.00	21.18	19.69	22.81	22.74	24.44
March .....	14.56	16.06	18.91	18.55	20.83	22.05	21.22
April .....	14.58	15.28	17.72	17.89	19.25	21.09	21.01
May .....	14.64	16.08	17.91	18.07	19.96	20.17	20.63
June .....	14.37	15.00	17.20	17.32	19.16	20.27	19.03
July .....	14.65	15.42	17.64	17.60	19.05	19.96	19.40
August .....	14.49	15.72	17.81	18.50	19.58	20.23	20.13
September .....	14.64	15.55	18.10	18.56	19.80	20.01	20.09
October .....	14.35	16.51	18.64	18.89	20.67	21.59	21.42
November .....	13.32	14.96	17.93	17.62	19.89	20.11	21.34
December .....	10.74	13.03	16.48	16.32	18.28	18.42	19.17
<b>1997</b> .....	<b>14.42</b>	<b>15.79</b>	<b>18.57</b>	<b>18.42</b>	<b>20.34</b>	<b>21.09</b>	<b>20.85</b>
<b>1998</b> .....	<b>9.78</b>	<b>11.04</b>	<b>14.87</b>	<b>14.99</b>	<b>16.37</b>	<b>17.28</b>	<b>17.27</b>
January .....	9.78	11.04	14.87	14.99	16.37	17.28	17.27
February .....	8.86	10.02	13.58	13.89	15.15	16.01	16.39
March .....	8.63	9.37	13.03	13.35	14.33	15.09	14.68
April .....	9.22	10.05	12.17	13.05	14.51	15.28	14.88
May .....	8.39	9.82	11.62	12.71	14.40	14.91	14.66
June .....	8.20	9.43	11.40	11.65	13.06	13.42	13.06
July .....	8.12	9.64	11.12	11.82	13.12	13.58	14.02
August .....	7.21	9.48	10.98	11.90	12.80	13.50	13.51
September .....	9.50	10.87	12.33	13.33	14.05	15.36	14.80
October .....	8.88	10.68	12.16	12.58	13.72	13.45	14.51

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

**Table 28. Percentages of Total Imported Crude Oil by API Gravity**  
(Percent by Interval)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978 .....	1.26	3.57	7.93	38.79	31.66	13.48	3.31
1979 .....	1.65	3.96	8.45	38.98	30.64	13.36	2.96
1980 .....	1.70	6.18	9.25	38.43	27.02	13.56	3.85
1981 .....	2.19	8.88	9.46	37.37	26.60	12.53	2.98
1982 .....	3.39	14.90	11.72	35.58	23.76	8.44	2.20
1983 .....	3.91	20.40	15.14	24.95	23.63	7.74	4.23
1984 .....	6.48	20.52	11.59	21.05	25.75	8.12	6.48
1985 .....	7.62	20.46	11.19	27.14	24.93	4.02	4.65
1986 .....	5.54	19.36	14.12	27.49	25.74	3.65	4.11
1987 .....	4.04	19.68	16.88	26.91	24.79	3.87	3.85
1988 .....	3.52	18.27	15.99	30.72	24.45	4.04	3.02
1989 .....	2.55	14.39	16.80	36.27	23.79	3.55	2.64
1990 .....	3.64	14.96	18.13	34.44	23.21	2.94	2.67
1991 .....	3.76	16.02	20.79	34.84	20.94	2.11	1.55
1992 .....	4.05	17.64	22.41	31.38	20.49	3.00	1.04
1993 .....	4.52	18.79	19.24	32.49	20.99	2.59	1.39
1994 .....	3.80	18.98	18.46	30.77	23.37	2.75	1.87
1995 .....	4.52	18.38	17.04	31.51	23.81	2.98	1.76
<b>1996</b> .....	<b>4.58</b>	<b>20.88</b>	<b>14.69</b>	<b>32.92</b>	<b>23.51</b>	<b>1.95</b>	<b>1.47</b>
January .....	4.15	22.60	17.85	28.54	23.19	2.19	1.48
February .....	4.52	22.26	14.69	28.79	24.96	3.51	1.27
March .....	3.79	19.54	19.77	31.45	22.75	1.17	1.54
April .....	4.56	20.86	13.84	31.67	26.91	0.96	1.20
May .....	4.51	18.61	15.86	32.04	24.32	3.00	1.66
June .....	4.29	20.45	15.33	34.01	22.65	2.29	0.98
July .....	6.17	18.84	13.25	33.93	24.75	2.16	0.90
August .....	5.23	19.66	12.44	35.69	22.73	2.57	1.69
September .....	3.99	21.90	13.26	36.65	21.75	0.65	1.80
October .....	3.92	22.24	15.65	30.63	23.84	1.09	2.62
November .....	5.03	22.49	13.65	31.88	23.91	2.24	0.80
December .....	4.63	21.77	11.45	38.24	20.65	1.68	1.59
<b>1996</b> .....	<b>4.58</b>	<b>20.88</b>	<b>14.69</b>	<b>32.92</b>	<b>23.51</b>	<b>1.95</b>	<b>1.47</b>
<b>1997</b> .....	<b>6.05</b>	<b>21.88</b>	<b>13.33</b>	<b>34.43</b>	<b>21.28</b>	<b>1.77</b>	<b>1.27</b>
January .....	4.81	21.56	12.96	34.96	21.61	2.76	1.34
February .....	4.66	22.18	15.45	29.96	24.56	2.33	0.86
March .....	5.24	21.60	12.11	36.02	21.09	2.14	1.80
April .....	6.80	20.41	14.34	32.48	22.99	1.79	1.20
May .....	6.62	21.61	13.24	33.72	21.18	2.58	1.05
June .....	5.61	21.19	14.03	34.45	21.17	2.02	1.54
July .....	7.08	22.27	14.68	32.31	21.71	0.86	1.09
August .....	6.24	23.33	11.33	36.18	20.93	0.81	1.19
September .....	6.20	23.75	11.30	35.13	20.15	1.58	1.89
October .....	6.93	19.41	14.15	36.46	20.45	1.20	1.40
November .....	6.35	21.54	13.00	36.42	20.16	1.69	0.85
December .....	5.69	23.46	14.04	34.22	20.02	1.64	0.92
<b>1997</b> .....	<b>6.05</b>	<b>21.88</b>	<b>13.33</b>	<b>34.43</b>	<b>21.28</b>	<b>1.77</b>	<b>1.27</b>
<b>1998</b> .....	<b>5.07</b>	<b>24.79</b>	<b>13.48</b>	<b>30.95</b>	<b>22.09</b>	<b>2.69</b>	<b>0.93</b>
January .....	5.07	24.79	13.48	30.95	22.09	2.69	0.93
February .....	5.51	22.43	14.12	29.09	24.45	2.08	2.32
March .....	6.88	21.13	14.05	34.05	20.90	2.11	0.89
April .....	7.12	20.59	18.40	31.75	19.50	1.38	1.27
May .....	5.15	19.20	14.74	33.94	23.10	1.80	2.06
June .....	5.55	20.94	14.70	36.66	19.98	0.97	1.21
July .....	5.91	18.04	14.65	39.69	17.80	2.19	1.70
August .....	5.14	19.69	13.73	38.31	19.15	1.62	2.36
September .....	7.20	22.76	12.09	34.37	19.72	1.74	2.12
October .....	7.26	21.11	13.31	35.81	19.25	1.31	1.94

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

**Table 29. F.O.B.<sup>a</sup> Costs of Imported Crude Oil for Selected Crude Streams**  
(Dollars per Barrel)

Year Quarter Month	Angolan Cabinda	Canadian Bow River	Canadian Lloydminster	Ecuadorian Oriente	Gabon Rabi-Kouanga
1978 Average .....	13.32	—	—	12.87	—
1979 Average .....	20.35	—	—	27.59	—
1980 Average .....	33.24	—	W	34.51	—
1981 Average .....	35.55	W	W	32.66	—
1982 Average .....	31.86	W	W	32.36	—
1983 Average .....	28.14	W	24.54	28.22	—
1984 Average .....	27.58	W	24.70	28.16	—
1985 Average .....	26.30	24.55	23.79	26.12	—
1986 Average .....	13.39	11.47	12.77	13.32	—
1987 Average .....	17.31	15.63	15.12	16.53	—
1988 Average .....	14.52	11.82	11.28	12.96	—
1989 Average .....	17.15	14.94	W	16.26	—
1990 Average .....	W	18.57	18.50	W	—
1991 Average .....	W	13.44	13.51	16.04	18.21
1992 Average .....	18.46	14.04	W	17.60	19.01
1993 Average .....	15.65	12.76	W	14.57	16.56
1994 Average .....	15.15	12.86	W	13.70	15.67
1995 Average .....	16.37	14.70	14.44	16.29	17.08
1996 Average .....	20.44	18.19	17.14	18.84	20.97
<b>1997</b>					
January .....	W	W	18.06	W	23.45
February .....	W	16.71	16.01	W	19.86
March .....	17.71	W	14.69	W	W
<b>1st Quarter Average</b> .....	19.51	17.27	16.39	W	21.59
April .....	W	15.29	14.14	W	17.19
May .....	17.79	15.20	14.51	W	W
June .....	W	14.42	13.41	W	W
<b>2nd Quarter Average</b> .....	17.10	14.96	14.06	W	17.57
July .....	17.35	14.37	13.79	W	18.06
August .....	17.54	14.97	14.47	W	W
September .....	17.65	14.70	14.21	—	W
<b>3rd Quarter Average</b> .....	17.51	14.71	14.17	W	18.09
October .....	18.90	15.68	15.17	W	W
November .....	18.08	W	13.51	W	19.06
December .....	16.24	W	11.31	—	16.33
<b>4th Quarter Average</b> .....	17.89	14.73	13.03	W	18.07
<b>1997 Average</b> .....	<b>17.93</b>	<b>15.37</b>	<b>14.29</b>	<b>17.95</b>	<b>18.75</b>
<b>1998</b>					
January .....	13.79	W	10.13	W	14.84
February .....	12.98	W	9.19	W	13.38
March .....	12.04	W	9.02	W	12.90
<b>1st Quarter Average</b> .....	12.76	W	9.49	W	13.63
April .....	12.56	W	8.67	W	12.85
May .....	13.33	W	8.33	W	13.89
June .....	11.11	W	7.80	W	10.85
<b>2nd Quarter Average</b> .....	12.26	W	8.31	W	12.71
July .....	10.91	W	9.21	W	11.63
August .....	10.87	W	8.85	W	11.56
September .....	W	W	10.65	—	13.51
<b>3rd Quarter Average</b> .....	11.29	W	9.57	W	12.28
October .....	12.16	W	10.70	W	W

See footnotes at end of table.

**Table 29. F.O.B.<sup>a</sup> Costs of Imported Crude Oil for Selected Crude Streams**

(Dollars per Barrel) — Continued

Year Quarter Month	Mexican Mayan	Mexican Olmeca	Nigerian Forcados Blend	Venezuelan Furrial	Venezuelan Leona
1978 Average .....	—	—	—	—	—
1979 Average .....	21.50	—	—	—	—
1980 Average .....	28.73	—	—	—	—
1981 Average .....	30.82	—	38.19	—	32.94
1982 Average .....	25.29	—	34.78	—	W
1983 Average .....	23.99	—	29.55	—	W
1984 Average .....	25.35	—	29.04	—	—
1985 Average .....	24.23	—	27.78	—	W
1986 Average .....	10.93	—	14.32	—	11.14
1987 Average .....	15.72	—	18.97	—	16.27
1988 Average .....	11.26	13.63	14.63	—	13.95
1989 Average .....	14.71	18.69	17.87	W	16.01
1990 Average .....	17.29	23.64	21.47	22.48	20.44
1991 Average .....	13.02	20.08	20.09	16.84	15.80
1992 Average .....	13.42	19.55	19.90	16.09	15.65
1993 Average .....	12.03	16.98	17.81	13.78	12.97
1994 Average .....	12.39	16.03	16.52	14.08	12.00
1995 Average .....	14.37	17.32	17.43	15.98	13.58
1996 Average .....	17.43	21.56	21.45	20.42	17.13
<b>1997</b>					
January .....	18.47	24.61	24.58	22.97	W
February .....	15.97	22.26	22.74	19.29	15.89
March .....	14.89	19.87	W	17.31	W
<b>1st Quarter Average</b> .....	16.51	22.34	22.66	19.81	W
April .....	14.49	18.40	W	16.73	W
May .....	15.34	19.40	19.06	16.98	W
June .....	14.12	17.76	W	16.08	W
<b>2nd Quarter Average</b> .....	14.65	18.50	18.27	16.60	W
July .....	14.43	18.36	19.28	16.53	W
August .....	14.97	18.74	W	16.86	15.27
September .....	14.87	18.58	W	W	W
<b>3rd Quarter Average</b> .....	14.77	18.55	19.32	17.05	15.51
October .....	15.93	20.06	W	18.44	W
November .....	14.42	19.00	W	W	W
December .....	11.49	17.26	W	W	12.20
<b>4th Quarter Average</b> .....	14.02	18.80	18.67	17.07	13.01
<b>1997 Average</b> .....	<b>14.97</b>	<b>19.67</b>	<b>19.68</b>	<b>17.73</b>	<b>14.76</b>
<b>1998</b>					
January .....	9.69	15.51	W	W	10.90
February .....	9.06	14.65	W	W	9.69
March .....	7.79	13.41	W	W	9.83
<b>1st Quarter Average</b> .....	8.81	14.59	W	W	10.23
April .....	9.29	13.78	13.62	12.01	10.27
May .....	9.31	14.12	14.22	11.36	W
June .....	8.66	12.36	11.41	10.67	W
<b>2nd Quarter Average</b> .....	9.08	13.46	13.11	11.35	10.02
July .....	9.16	12.70	W	10.80	8.51
August .....	8.46	12.24	W	W	8.40
September .....	9.63	13.82	W	W	W
<b>3rd Quarter Average</b> .....	9.09	12.93	W	11.05	9.02
October .....	9.62	13.11	—	W	W

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Free on Board. See Glossary.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

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**Table 30. Landed Costs of Imported Crude Oil for Selected Crude Streams**

(Dollars per Barrel)

Year Quarter Month	Angolan Cabinda	Canadian Bow River Heavy	Canadian Lloydminster	Ecuadorian Oriente	Gabon Rabi-Kouanga	Mexican Mayan	Mexican Olmeca
1978 Average .....	14.07	—	—	13.85	—	—	—
1979 Average .....	21.51	—	—	29.17	—	22.23	—
1980 Average .....	34.68	—	W	34.61	—	29.49	—
1981 Average .....	36.84	W	W	33.56	—	31.52	—
1982 Average .....	33.08	28.94	W	32.97	—	25.86	—
1983 Average .....	29.31	25.62	25.27	28.90	—	24.56	—
1984 Average .....	28.63	25.46	25.35	28.79	—	25.84	—
1985 Average .....	27.48	25.42	24.38	26.97	—	24.57	—
1986 Average .....	14.27	12.71	13.52	14.39	—	11.24	—
1987 Average .....	18.43	16.49	15.98	17.60	—	16.03	—
1988 Average .....	14.96	12.68	12.21	13.77	—	11.65	14.07
1989 Average .....	18.15	15.99	15.36	17.69	—	15.14	19.09
1990 Average .....	20.01	19.32	19.55	21.63	—	17.75	23.78
1991 Average .....	18.31	14.31	14.63	17.52	19.51	13.62	20.45
1992 Average .....	19.59	15.01	W	18.52	19.70	13.80	19.91
1993 Average .....	16.95	13.56	13.65	15.79	17.51	12.45	17.43
1994 Average .....	16.07	13.90	13.58	15.24	16.73	12.79	16.54
1995 Average .....	17.31	15.77	15.56	16.84	18.15	14.88	17.80
1996 Average .....	21.56	19.18	18.50	19.91	21.79	17.95	21.89
<b>1997</b>							
January .....	23.98	20.83	19.55	24.63	24.60	19.10	25.13
February .....	21.33	18.73	17.84	20.28	20.97	16.56	22.63
March .....	19.46	17.33	16.23	18.31	W	15.49	20.20
<b>1st Quarter</b>							
Average .....	21.80	18.80	17.96	20.67	22.45	17.04	22.65
April .....	17.72	16.04	15.43	17.71	18.41	15.14	18.98
May .....	19.00	16.21	15.66	17.41	W	15.97	19.88
June .....	W	15.45	14.78	17.30	W	14.78	18.29
<b>2nd Quarter</b>							
Average .....	18.35	15.93	15.31	17.45	18.85	15.30	19.06
July .....	18.26	15.50	15.14	15.97	19.49	15.00	18.83
August .....	18.65	16.05	15.61	16.75	W	15.53	19.18
September .....	18.96	16.01	15.39	16.05	W	15.36	19.05
<b>3rd Quarter</b>							
Average .....	18.61	15.87	15.38	16.28	19.42	15.31	19.02
October .....	20.20	16.66	16.26	18.52	20.48	16.56	20.50
November .....	19.30	15.48	15.06	18.25	20.59	15.18	19.42
December .....	17.90	13.77	12.72	15.77	17.83	12.17	17.71
<b>4th Quarter</b>							
Average .....	19.18	15.18	14.41	17.88	19.59	14.76	19.26
<b>1997 Average .....</b>	<b>19.47</b>	<b>16.46</b>	<b>15.72</b>	<b>18.06</b>	<b>20.07</b>	<b>15.57</b>	<b>20.05</b>
<b>1998</b>							
January .....	15.18	11.86	11.36	14.31	16.34	10.37	16.01
February .....	14.25	10.79	10.17	13.97	14.77	9.66	14.99
March .....	13.29	10.51	10.15	11.94	14.44	8.21	13.77
<b>1st Quarter</b>							
Average .....	14.04	11.14	10.59	13.35	15.12	9.39	14.98
April .....	13.81	10.25	9.65	12.14	14.28	9.74	14.21
May .....	14.17	10.34	9.40	10.54	15.11	9.66	14.40
June .....	12.46	9.54	9.02	10.74	12.27	9.00	12.79
<b>2nd Quarter</b>							
Average .....	13.39	9.98	9.39	11.03	13.99	9.45	13.80
July .....	12.18	10.00	10.00	10.63	12.67	9.53	13.03
August .....	12.09	10.39	9.74	10.93	12.70	8.89	12.61
September .....	13.01	11.11	11.29	11.71	14.43	10.02	14.14
<b>3rd Quarter</b>							
Average .....	12.40	10.49	10.33	10.99	13.24	9.50	13.24
October .....	13.24	11.15	11.57	12.93	W	10.07	13.51

See footnotes at end of table.



**Table 30. Landed Costs of Imported Crude Oil for Selected Crude Streams**

(Dollars per Barrel) — Continued

Year Quarter Month	Nigerian Bonny Light	Nigerian Forcados Blend	Saudi Arabian Light	Saudi Arabian Medium	United Kingdom Brent	Venezuelan Furrial	Venezuelan Leona
1978 Average .....	15.04	—	14.04	—	—	—	—
1979 Average .....	27.11	—	19.18	—	23.26	—	—
1980 Average .....	38.58	—	29.57	—	34.57	—	—
1981 Average .....	39.25	40.15	34.32	32.74	37.58	—	33.60
1982 Average .....	36.45	35.57	35.65	32.56	34.53	—	W
1983 Average .....	31.06	30.46	30.95	29.16	31.26	—	W
1984 Average .....	30.46	30.11	30.61	29.09	29.89	—	—
1985 Average .....	28.98	28.65	25.35	W	28.49	—	W
1986 Average .....	15.00	14.52	13.06	W	14.64	—	11.80
1987 Average .....	19.26	19.65	17.88	W	18.71	—	16.81
1988 Average .....	16.02	15.41	14.04	13.05	15.84	—	14.50
1989 Average .....	19.38	18.86	17.96	16.83	18.83	16.78	16.68
1990 Average .....	23.21	22.71	22.49	20.98	24.40	23.26	21.28
1991 Average .....	21.57	21.13	18.49	17.04	21.65	17.69	16.40
1992 Average .....	20.85	20.67	18.54	17.14	20.68	16.80	16.21
1993 Average .....	18.75	18.65	16.62	14.86	18.02	14.71	13.76
1994 Average .....	17.23	17.32	15.83	14.81	16.65	14.95	12.81
1995 Average .....	18.35	18.19	17.17	16.54	17.96	16.78	14.40
1996 Average .....	21.69	21.89	20.86	20.12	20.94	21.18	17.99
<b>1997</b>							
January .....	W	25.76	21.87	20.05	24.80	23.89	W
February .....	W	23.96	18.89	17.81	24.33	20.11	16.70
March .....	W	20.12	18.64	17.39	23.59	18.18	W
<b>1st Quarter</b>							
Average .....	W	23.79	19.84	18.65	24.39	20.72	W
April .....	W	19.10	17.82	17.10	19.40	17.59	W
May .....	19.74	19.98	17.69	16.57	20.01	17.98	W
June .....	W	19.14	17.42	16.64	19.63	17.15	W
<b>2nd Quarter</b>							
Average .....	19.79	19.40	17.66	16.76	19.67	17.58	W
July .....	—	19.95	17.27	16.67	18.73	17.26	W
August .....	W	20.06	18.70	18.09	19.44	17.56	16.12
September .....	21.06	20.30	18.30	17.80	19.40	18.36	W
<b>3rd Quarter</b>							
Average .....	20.88	20.13	18.05	17.54	19.18	17.70	16.38
October .....	W	20.67	18.13	16.84	W	19.21	W
November .....	W	20.37	16.68	14.90	W	17.95	W
December .....	—	19.14	15.73	14.18	W	W	13.18
<b>4th Quarter</b>							
Average .....	20.61	19.98	16.63	15.38	19.50	17.86	14.02
<b>1997 Average</b> .....	<b>21.21</b>	<b>20.67</b>	<b>18.11</b>	<b>17.10</b>	<b>20.85</b>	<b>18.59</b>	<b>15.83</b>
<b>1998</b>							
January .....	W	16.76	14.64	12.69	W	14.62	11.82
February .....	16.84	15.35	14.04	12.56	W	W	10.53
March .....	14.37	14.82	12.84	12.02	15.27	W	10.81
<b>1st Quarter</b>							
Average .....	15.62	15.53	13.77	12.43	15.71	13.83	11.15
April .....	15.13	14.55	13.33	11.05	15.20	12.80	11.16
May .....	15.07	15.18	12.58	10.57	14.18	11.97	W
June .....	13.42	13.16	11.33	10.68	W	11.29	W
<b>2nd Quarter</b>							
Average .....	14.77	14.31	12.47	10.74	14.37	12.02	10.80
July .....	W	12.49	12.09	10.85	W	11.54	9.29
August .....	13.47	12.95	11.46	11.15	13.17	W	9.16
September .....	W	14.48	12.84	11.82	13.65	W	W
<b>3rd Quarter</b>							
Average .....	13.84	13.13	12.15	11.12	13.35	11.73	9.80
October .....	—	14.41	12.63	11.36	13.62	W	W

Dash (—) = No data reported.

W = Withheld to avoid disclosure of individual company data.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

# Prices of Petroleum Products

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	60.9	60.6	55.8	48.1	43.9	49.8	70.1	69.7	62.3	52.5	NA	57.3
September 1998 .....	60.0	59.9	55.3	46.7	42.3	48.6	69.3	68.9	61.7	50.7	W	56.0
October 1997 .....	79.9	79.5	74.3	63.7	60.2	66.3	88.6	88.0	80.8	67.6	W	74.1
<b>PAD District I</b>												
October 1998 .....	58.2	57.9	53.6	47.3	44.3	49.3	67.8	67.4	60.5	51.5	—	55.9
September 1998 .....	56.4	56.2	52.5	45.1	42.6	47.4	66.3	65.9	59.4	49.0	—	54.1
October 1997 .....	77.9	77.3	72.2	62.3	59.7	65.4	87.0	86.1	78.0	66.1	—	72.0
<b>Subdistrict IA</b>												
October 1998 .....	62.4	62.0	56.8	49.2	44.9	51.8	72.4	71.6	63.9	53.1	—	59.3
September 1998 .....	60.7	60.3	55.2	47.6	44.6	50.9	71.1	70.4	62.4	51.4	—	57.6
October 1997 .....	85.8	85.0	76.4	67.1	61.8	70.3	94.7	93.6	84.1	71.1	—	78.2
<b>Connecticut</b>												
October 1998 .....	60.7	60.4	57.2	49.1	W	52.7	71.5	69.8	63.3	53.2	—	59.0
September 1998 .....	57.7	57.5	56.0	47.3	NA	51.8	69.1	67.4	61.8	51.6	—	57.4
October 1997 .....	83.6	83.2	74.0	67.7	W	69.8	92.5	90.2	81.0	72.0	—	77.2
<b>Maine</b>												
October 1998 .....	67.3	67.1	58.0	50.0	W	51.1	77.8	77.1	64.2	53.9	—	57.9
September 1998 .....	66.2	66.0	55.9	48.1	—	50.4	76.7	76.3	62.9	51.9	—	56.2
October 1997 .....	87.7	87.3	75.2	66.7	W	67.7	97.2	96.5	82.2	70.1	—	74.2
<b>Massachusetts</b>												
October 1998 .....	61.1	60.3	56.1	48.7	45.0	51.0	71.1	70.6	64.5	52.5	—	60.0
September 1998 .....	59.4	58.6	54.3	47.4	43.7	50.5	70.1	69.5	63.0	51.0	—	58.3
October 1997 .....	86.7	85.1	77.3	66.8	W	70.9	95.4	94.8	86.3	71.0	—	79.9
<b>New Hampshire</b>												
October 1998 .....	63.5	63.5	58.2	48.9	W	52.5	73.3	73.3	64.1	52.4	—	60.5
September 1998 .....	62.2	62.1	56.3	47.4	W	51.1	72.3	72.2	62.3	50.7	—	59.3
October 1997 .....	85.3	85.0	78.4	67.5	—	74.4	94.6	94.4	84.1	71.1	—	81.2
<b>Rhode Island</b>												
October 1998 .....	56.9	56.9	54.0	50.0	—	51.3	66.6	66.5	60.5	53.3	—	56.8
September 1998 .....	55.8	55.8	51.8	47.8	—	49.0	65.8	65.7	58.1	51.7	—	54.7
October 1997 .....	82.3	82.1	79.0	67.3	—	70.5	91.0	90.4	85.0	71.0	—	77.1
<b>Vermont</b>												
October 1998 .....	63.9	64.0	59.2	50.3	—	56.4	73.0	72.5	67.4	53.9	—	63.6
September 1998 .....	62.1	62.4	57.8	47.6	—	54.6	71.4	70.9	66.1	51.8	—	61.9
October 1997 .....	86.4	86.2	77.9	67.1	—	74.3	95.3	94.2	85.9	71.3	—	81.5
<b>Subdistrict IB</b>												
October 1998 .....	59.1	59.0	55.3	47.8	44.1	49.8	68.3	68.0	61.6	52.4	—	58.1
September 1998 .....	58.0	57.9	54.2	46.0	42.5	48.1	67.4	67.0	61.0	50.3	—	56.8
October 1997 .....	80.3	79.9	74.7	64.5	59.4	67.0	88.6	88.1	80.2	68.9	—	75.9
<b>Delaware</b>												
October 1998 .....	58.1	57.9	54.4	47.8	—	50.5	69.2	68.5	61.2	51.4	—	56.1
September 1998 .....	56.8	56.5	51.5	45.1	—	47.6	68.8	67.9	58.3	48.7	—	53.1
October 1997 .....	79.9	79.3	72.2	65.5	—	68.3	90.3	89.1	78.3	69.2	—	73.9
<b>District of Columbia</b>												
October 1998 .....	W	57.0	60.3	—	—	60.3	W	68.4	NA	—	—	NA
September 1998 .....	W	56.3	60.1	—	—	60.1	W	67.8	NA	—	—	NA
October 1997 .....	W	73.2	77.3	—	—	77.3	W	83.6	80.3	—	—	80.3
<b>Maryland</b>												
October 1998 .....	58.1	57.8	56.1	48.1	—	52.9	67.6	66.8	62.0	52.3	—	59.1
September 1998 .....	57.3	56.8	55.7	45.6	—	51.5	67.2	66.5	61.8	49.7	—	58.1
October 1997 .....	80.8	79.1	73.6	62.6	—	69.1	89.3	86.8	78.8	66.5	—	75.2
<b>New Jersey</b>												
October 1998 .....	62.0	62.3	58.1	48.8	44.0	48.9	72.9	73.1	63.5	54.1	—	60.0
September 1998 .....	61.2	61.4	57.0	47.4	42.4	47.1	72.3	72.5	62.7	52.7	—	58.7
October 1997 .....	84.3	84.2	79.1	66.8	59.6	66.3	94.5	93.5	85.0	73.0	—	80.9
<b>New York</b>												
October 1998 .....	60.9	60.4	56.0	48.1	45.5	51.1	70.4	69.0	64.2	51.8	—	60.2
September 1998 .....	59.7	59.1	54.4	46.3	44.1	49.4	69.5	67.9	63.0	50.0	—	58.6
October 1997 .....	83.1	82.4	77.0	65.4	58.7	69.2	91.9	90.9	83.7	69.7	—	79.2
<b>Pennsylvania</b>												
October 1998 .....	57.3	57.4	51.7	47.2	43.7	48.5	66.4	66.5	57.0	51.8	—	54.5
September 1998 .....	56.1	56.2	50.7	45.3	42.4	46.8	65.3	65.3	57.0	49.3	—	53.2
October 1997 .....	77.2	77.1	69.9	63.1	58.8	65.0	85.8	85.6	74.5	67.6	—	70.9

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	77.8	77.1	68.7	57.7	48.8	61.6	64.9	64.5	59.3	50.1	44.4	52.6
September 1998 .....	76.8	76.1	67.9	55.9	47.4	60.1	64.0	63.7	58.8	48.6	42.8	51.3
October 1997 .....	96.5	95.5	87.2	72.8	64.3	77.9	83.5	83.0	77.7	65.4	60.6	68.9
<b>PAD District I</b>												
October 1998 .....	76.1	75.3	66.4	56.9	49.5	60.8	63.1	62.8	57.7	49.7	45.1	52.5
September 1998 .....	74.6	73.8	65.5	54.6	48.6	59.3	61.5	61.2	56.7	47.4	43.4	50.7
October 1997 .....	95.6	94.3	85.5	71.9	65.1	77.5	82.4	81.7	76.2	64.4	60.6	68.6
<b>Subdistrict IA</b>												
October 1998 .....	80.7	79.2	69.0	57.8	W	62.9	66.6	66.0	60.0	51.1	45.4	54.4
September 1998 .....	79.3	78.0	67.9	56.4	W	61.6	65.0	64.5	58.5	49.5	45.2	53.5
October 1997 .....	103.1	100.9	89.1	76.0	W	81.5	89.4	88.4	79.6	68.8	62.4	72.9
<b>Connecticut</b>												
October 1998 .....	80.4	79.3	69.7	58.9	W	62.2	65.7	65.2	60.3	51.3	W	55.4
September 1998 .....	77.6	76.9	69.3	57.1	W	61.6	62.8	62.4	59.0	49.6	W	54.4
October 1997 .....	102.2	100.9	87.8	77.4	W	79.9	87.8	87.0	77.3	69.8	63.9	72.4
<b>Maine</b>												
October 1998 .....	87.5	86.8	69.8	58.5	—	61.9	71.1	70.8	60.3	51.4	W	52.9
September 1998 .....	86.7	85.7	69.1	56.9	—	60.7	70.1	69.9	58.6	49.6	—	52.3
October 1997 .....	106.2	105.3	87.6	75.6	—	79.0	90.9	90.5	77.5	68.0	W	69.4
<b>Massachusetts</b>												
October 1998 .....	78.9	76.5	68.1	56.7	—	62.9	65.5	64.5	59.5	50.6	45.0	53.8
September 1998 .....	77.8	75.8	66.9	55.6	W	61.4	64.0	63.1	57.9	49.4	43.9	53.4
October 1997 .....	103.2	99.3	89.6	75.4	W	82.7	90.3	88.6	80.8	68.7	W	73.8
<b>New Hampshire</b>												
October 1998 .....	82.8	82.7	70.6	56.6	—	65.6	67.3	67.3	61.0	50.3	W	54.8
September 1998 .....	81.3	81.3	68.5	55.2	—	63.9	66.1	66.0	59.2	48.7	W	53.4
October 1997 .....	103.1	103.1	90.1	76.1	—	85.7	88.6	88.3	80.9	68.9	—	76.8
<b>Rhode Island</b>												
October 1998 .....	74.9	74.6	67.1	58.8	—	61.8	61.1	61.0	57.6	51.9	—	53.9
September 1998 .....	74.1	73.8	64.8	57.2	—	59.8	60.1	60.1	55.3	49.9	—	51.7
October 1997 .....	98.1	97.5	91.9	75.6	—	80.9	85.8	85.6	82.4	69.0	—	73.1
<b>Vermont</b>												
October 1998 .....	80.9	80.5	71.8	59.4	—	68.8	67.2	67.1	62.4	51.9	—	59.3
September 1998 .....	79.4	79.2	70.1	56.7	—	66.9	65.6	65.6	61.0	49.3	—	57.6
October 1997 .....	103.1	101.9	89.4	76.6	—	85.3	89.5	89.0	80.3	68.8	—	76.6
<b>Subdistrict IB</b>												
October 1998 .....	76.6	76.0	69.2	57.0	49.3	62.5	63.7	63.5	60.0	50.0	45.0	53.4
September 1998 .....	76.0	75.3	68.3	55.4	48.5	61.5	62.7	62.5	59.1	48.2	43.3	51.8
October 1997 .....	97.5	96.4	88.5	73.9	65.5	80.3	84.4	83.9	79.2	66.5	60.4	70.7
<b>Delaware</b>												
October 1998 .....	77.7	76.9	68.3	56.9	—	61.7	62.9	62.6	57.9	49.8	—	53.2
September 1998 .....	77.3	76.6	65.6	54.4	—	59.0	62.0	61.4	55.0	47.2	—	50.4
October 1997 .....	98.9	97.4	86.2	75.0	—	80.1	84.2	83.4	75.6	67.5	—	71.1
<b>District of Columbia</b>												
October 1998 .....	W	72.2	NA	—	—	NA	W	62.7	NA	—	—	NA
September 1998 .....	W	72.5	NA	—	—	NA	W	62.2	65.0	—	—	65.0
October 1997 .....	W	87.8	86.8	—	—	86.8	W	78.4	82.0	—	—	82.0
<b>Maryland</b>												
October 1998 .....	73.1	72.0	66.8	57.5	—	63.9	62.6	62.1	59.9	50.5	—	56.4
September 1998 .....	72.5	71.5	66.0	55.0	W	62.1	62.0	61.5	59.4	48.0	W	55.1
October 1997 .....	95.0	92.8	83.8	72.0	W	80.1	84.7	82.8	77.0	64.8	W	72.6
<b>New Jersey</b>												
October 1998 .....	81.3	81.3	71.4	57.3	49.6	62.9	68.4	68.5	62.9	51.4	44.6	52.7
September 1998 .....	80.8	80.6	70.6	56.6	48.8	61.8	67.7	67.7	62.0	50.1	43.0	50.8
October 1997 .....	102.9	102.4	93.1	76.1	65.6	81.8	89.9	89.6	84.0	69.6	60.3	70.4
<b>New York</b>												
October 1998 .....	77.6	76.5	71.7	56.6	49.9	64.0	65.3	64.5	62.1	49.9	47.8	55.3
September 1998 .....	77.1	75.8	70.5	55.3	49.6	63.9	64.3	63.4	60.6	48.3	45.7	53.9
October 1997 .....	98.3	96.6	90.5	74.2	65.4	81.5	86.8	85.9	82.1	67.2	61.7	73.2
<b>Pennsylvania</b>												
October 1998 .....	73.9	73.6	63.3	57.0	47.7	58.6	61.5	61.5	54.8	49.2	44.8	50.9
September 1998 .....	73.2	72.9	62.4	54.8	47.2	57.1	60.4	60.4	53.9	47.2	43.3	49.3
October 1997 .....	94.4	93.8	82.3	72.7	65.4	76.3	81.1	80.9	72.9	65.0	59.6	67.5

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
October 1998 .....	56.8	56.5	50.6	46.6	NA	47.9	66.8	66.6	58.5	51.0	—	54.0
September 1998 .....	54.7	54.5	49.7	43.9	NA	45.7	65.0	64.8	57.0	48.1	—	51.7
October 1997 .....	74.9	74.3	67.6	59.7	58.1	62.1	84.9	84.1	74.0	64.2	—	68.1
<b>Florida</b>												
October 1998 .....	57.9	57.4	51.3	46.7	NA	48.0	68.8	68.2	58.8	50.7	—	54.1
September 1998 .....	55.5	55.0	48.8	43.7	W	45.1	66.6	66.1	56.6	47.5	—	51.3
October 1997 .....	76.9	76.0	69.5	59.7	W	62.5	87.8	86.9	77.4	63.9	—	69.6
<b>Georgia</b>												
October 1998 .....	55.8	55.8	49.7	46.2	—	47.4	64.8	65.0	54.9	51.2	—	52.9
September 1998 .....	52.6	52.7	49.7	43.7	W	45.6	62.6	63.1	54.4	48.2	—	51.2
October 1997 .....	71.1	70.8	63.7	59.1	—	60.5	80.3	79.4	68.7	64.4	—	66.2
<b>North Carolina</b>												
October 1998 .....	56.1	55.4	47.5	46.6	—	46.9	66.2	65.9	59.7	51.2	—	53.7
September 1998 .....	54.4	53.9	47.8	43.8	W	45.1	64.5	64.1	58.0	48.3	—	51.2
October 1997 .....	73.8	73.2	65.9	59.7	W	61.3	84.1	83.3	73.8	64.3	—	67.1
<b>South Carolina</b>												
October 1998 .....	54.5	54.7	48.4	46.7	—	47.2	64.6	64.4	54.2	51.5	—	52.3
September 1998 .....	52.7	53.2	46.6	44.0	—	44.6	63.2	62.9	51.7	48.6	—	49.6
October 1997 .....	71.6	71.9	63.9	59.7	—	60.6	81.6	81.5	69.4	64.6	—	66.1
<b>Virginia</b>												
October 1998 .....	57.7	57.7	54.1	46.6	NA	49.4	67.6	67.5	61.8	50.1	—	55.4
September 1998 .....	56.7	56.8	52.8	44.2	W	47.2	66.6	66.4	60.6	47.7	—	53.4
October 1997 .....	78.2	77.6	71.1	60.4	W	64.7	87.5	86.8	75.5	64.1	—	69.7
<b>West Virginia</b>												
October 1998 .....	57.7	57.7	56.3	50.1	—	54.0	66.8	66.6	61.4	54.7	—	58.8
September 1998 .....	56.5	56.5	55.5	47.7	—	52.4	65.6	65.4	61.4	52.9	—	58.3
October 1997 .....	78.1	77.8	68.9	62.0	—	66.3	87.0	86.6	74.7	66.0	—	71.6
<b>PAD District II</b>												
October 1998 .....	60.9	60.9	54.1	47.6	43.5	48.9	68.9	68.7	60.2	52.4	—	55.5
September 1998 .....	60.3	60.4	53.9	47.0	42.8	48.3	68.5	68.3	60.1	51.5	—	55.0
October 1997 .....	76.5	76.5	67.5	61.7	57.6	62.9	83.9	83.6	74.0	66.0	—	69.6
<b>Illinois</b>												
October 1998 .....	64.4	64.3	59.4	47.8	44.8	50.3	70.7	70.6	64.1	51.1	—	58.6
September 1998 .....	64.3	64.3	59.6	47.7	41.7	49.5	71.8	71.5	64.1	52.0	—	59.1
October 1997 .....	78.3	78.3	72.2	61.7	57.9	63.9	85.3	85.2	78.3	66.0	—	74.2
<b>Indiana</b>												
October 1998 .....	59.7	59.7	53.3	46.7	42.4	48.2	67.6	67.5	58.4	50.9	—	53.9
September 1998 .....	59.6	59.7	53.6	46.0	41.4	47.7	68.6	68.4	58.3	50.4	—	53.6
October 1997 .....	74.8	74.7	65.9	60.7	57.6	62.4	82.3	81.8	71.8	64.1	—	67.5
<b>Iowa</b>												
October 1998 .....	58.5	59.0	51.8	48.0	—	48.3	65.4	65.4	56.4	55.9	—	56.0
September 1998 .....	59.1	59.6	51.7	47.7	—	48.1	65.1	65.1	56.3	53.7	—	54.3
October 1997 .....	78.5	78.7	67.7	62.5	—	63.0	82.6	82.8	71.0	69.1	—	69.6
<b>Kansas</b>												
October 1998 .....	58.5	58.2	52.9	46.9	W	47.2	63.2	63.1	NA	51.5	—	53.0
September 1998 .....	58.9	58.7	52.0	46.6	W	46.9	64.3	64.3	NA	51.4	—	52.7
October 1997 .....	75.4	75.3	67.2	61.7	56.9	61.7	81.6	81.5	71.1	66.2	—	68.8
<b>Kentucky</b>												
October 1998 .....	60.0	59.5	53.5	48.3	W	49.6	70.0	69.6	58.6	52.5	—	54.5
September 1998 .....	58.2	57.7	52.1	46.0	W	47.7	67.7	67.1	57.4	50.2	—	52.8
October 1997 .....	76.7	76.0	66.9	61.2	—	63.2	86.0	85.2	73.5	66.1	—	69.3
<b>Michigan</b>												
October 1998 .....	58.9	58.8	50.7	46.8	—	48.5	68.3	68.4	57.5	50.2	—	55.2
September 1998 .....	58.7	58.6	50.7	47.3	—	48.7	68.7	68.7	58.5	50.4	—	56.0
October 1997 .....	73.6	73.7	64.2	61.2	—	62.4	82.0	81.9	69.7	63.7	—	68.1
<b>Minnesota</b>												
October 1998 .....	69.5	69.3	59.8	52.3	W	53.9	74.0	73.6	NA	54.7	—	56.2
September 1998 .....	69.1	69.1	59.8	52.5	W	54.3	74.3	74.0	NA	55.0	—	56.9
October 1997 .....	88.4	87.9	72.8	66.3	W	67.4	93.4	93.0	78.6	69.0	—	71.5
<b>Missouri</b>												
October 1998 .....	56.5	57.1	54.8	46.5	—	48.9	64.7	65.2	57.7	51.1	—	54.7
September 1998 .....	56.1	56.7	54.7	46.2	—	48.8	65.0	65.6	NA	51.3	—	55.4
October 1997 .....	73.2	73.9	67.4	61.5	—	63.3	80.9	81.1	72.5	66.7	—	70.3

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
October 1998 .....	75.2	74.4	62.5	56.6	49.7	58.9	62.2	61.9	54.6	49.2	NA	51.1
September 1998 .....	73.2	72.5	61.5	53.9	49.9	56.8	60.2	59.9	53.7	46.5	43.1	49.0
October 1997 .....	93.6	92.4	80.5	70.0	61.2	73.8	79.9	79.3	71.6	62.2	59.7	65.3
<b>Florida</b>												
October 1998 .....	75.7	74.6	65.1	56.7	W	60.3	63.4	63.0	56.9	49.3	W	51.9
September 1998 .....	73.5	72.5	62.9	53.8	W	57.7	61.1	60.7	54.7	46.3	43.2	49.2
October 1997 .....	95.6	93.8	84.2	69.9	W	76.0	82.3	81.4	75.4	62.2	W	66.8
<b>Georgia</b>												
October 1998 .....	73.7	73.8	61.4	56.2	—	58.2	60.7	61.0	53.1	48.8	—	50.3
September 1998 .....	71.3	71.6	60.7	53.7	—	56.3	57.9	58.4	53.0	46.2	W	48.6
October 1997 .....	89.4	88.5	75.5	69.5	—	71.6	75.7	75.4	66.9	61.6	—	63.3
<b>North Carolina</b>												
October 1998 .....	75.8	74.5	57.4	56.9	—	57.1	62.0	61.3	50.9	49.4	—	49.9
September 1998 .....	73.8	72.6	57.9	54.2	—	55.4	60.4	59.6	51.0	46.6	W	48.1
October 1997 .....	93.3	92.5	78.8	70.1	W	72.2	79.3	78.7	69.6	62.3	W	64.2
<b>South Carolina</b>												
October 1998 .....	73.5	73.1	59.1	56.8	—	57.4	59.7	59.7	51.2	49.3	—	49.8
September 1998 .....	71.9	71.3	57.8	54.2	—	55.1	58.0	58.2	49.4	46.5	—	47.3
October 1997 .....	90.8	90.3	75.6	70.2	—	71.5	76.4	76.4	66.8	62.1	—	63.2
<b>Virginia</b>												
October 1998 .....	75.7	75.1	64.8	56.0	W	60.1	63.1	63.0	58.0	49.0	NA	52.6
September 1998 .....	74.5	74.2	63.8	53.5	W	58.1	62.0	62.0	56.7	46.5	NA	50.4
October 1997 .....	95.4	94.3	81.1	70.2	W	75.1	82.9	82.3	74.1	62.7	59.3	67.6
<b>West Virginia</b>												
October 1998 .....	75.5	75.1	68.2	60.3	—	65.3	61.6	61.6	59.0	52.5	—	56.6
September 1998 .....	74.4	74.1	67.2	58.1	—	63.8	60.4	60.4	58.2	50.0	—	55.1
October 1997 .....	95.5	94.8	81.4	71.7	—	77.5	81.8	81.5	71.5	64.1	—	68.7
<b>PAD District II</b>												
October 1998 .....	76.5	76.0	66.6	56.9	47.5	59.8	63.9	63.7	56.8	49.2	43.7	51.0
September 1998 .....	76.0	75.5	66.0	56.0	47.2	59.0	63.3	63.2	56.6	48.6	42.9	50.3
October 1997 .....	90.6	90.1	79.5	70.2	62.3	73.3	79.0	78.9	70.1	63.1	57.8	64.8
<b>Illinois</b>												
October 1998 .....	81.2	80.6	71.6	58.2	W	63.6	67.7	67.6	62.9	49.5	44.9	53.2
September 1998 .....	81.7	80.9	71.3	58.6	W	64.6	67.6	67.5	62.9	49.5	41.8	52.6
October 1997 .....	93.7	93.1	84.0	71.5	W	77.6	81.5	81.3	75.6	63.2	58.0	66.7
<b>Indiana</b>												
October 1998 .....	75.2	74.8	65.6	56.8	—	59.7	63.2	63.2	56.0	48.6	42.4	50.5
September 1998 .....	76.2	75.6	65.2	56.2	W	58.8	63.3	63.3	56.2	48.0	41.5	50.0
October 1997 .....	87.9	87.4	77.5	69.8	—	73.0	77.9	77.6	68.4	62.3	57.6	64.3
<b>Iowa</b>												
October 1998 .....	68.5	68.6	59.9	57.2	—	57.7	59.9	60.3	53.9	49.5	—	50.0
September 1998 .....	69.1	69.1	59.4	56.8	—	57.2	60.3	60.8	53.7	49.1	—	49.6
October 1997 .....	87.8	87.9	75.4	69.8	—	70.7	79.6	79.8	69.2	63.8	—	64.5
<b>Kansas</b>												
October 1998 .....	70.5	70.2	62.0	54.2	W	55.7	59.9	59.4	54.1	47.7	W	48.1
September 1998 .....	71.1	70.9	58.8	53.9	W	53.7	60.3	60.0	52.9	47.4	W	47.7
October 1997 .....	88.2	87.8	76.1	68.9	W	68.7	76.8	76.5	68.4	62.4	57.3	62.4
<b>Kentucky</b>												
October 1998 .....	79.0	77.9	64.7	58.2	—	60.2	64.5	63.9	56.1	50.5	W	52.0
September 1998 .....	77.3	76.1	63.8	55.8	—	58.3	62.7	62.1	54.9	48.2	W	50.2
October 1997 .....	93.9	92.2	78.8	70.8	—	73.6	80.6	79.8	69.8	63.3	—	65.6
<b>Michigan</b>												
October 1998 .....	74.6	73.8	63.3	57.3	—	59.9	61.5	61.3	53.3	48.4	—	50.5
September 1998 .....	74.6	73.9	63.2	57.4	—	59.9	61.3	61.2	53.4	48.9	—	50.8
October 1997 .....	88.3	88.1	76.2	70.4	—	73.2	75.9	76.0	66.4	62.2	—	64.0
<b>Minnesota</b>												
October 1998 .....	80.8	80.6	NA	58.7	W	61.8	71.0	70.7	61.1	53.2	W	54.9
September 1998 .....	80.1	80.2	68.6	58.6	W	61.6	70.7	70.6	61.2	53.4	W	55.4
October 1997 .....	100.7	100.0	81.2	72.0	W	73.9	89.8	89.3	74.0	67.0	W	68.3
<b>Missouri</b>												
October 1998 .....	73.3	73.3	67.4	54.9	—	59.6	59.2	59.6	57.1	47.7	—	50.6
September 1998 .....	73.0	73.0	66.4	54.8	—	59.3	58.8	59.3	57.0	47.4	—	50.5
October 1997 .....	89.4	89.3	78.9	69.5	—	73.6	75.4	75.8	69.7	62.5	—	65.0

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
October 1998 .....	61.3	61.7	51.7	47.8	—	48.4	66.6	65.9	60.0	53.8	—	55.3
September 1998 .....	61.3	61.6	51.1	47.2	—	47.8	68.0	67.5	56.5	54.3	—	54.8
October 1997 .....	77.0	77.6	67.1	62.7	—	63.3	82.1	81.6	71.2	69.3	—	70.0
<b>North Dakota</b>												
October 1998 .....	69.9	69.9	54.8	49.3	—	50.1	76.5	76.6	NA	56.5	—	57.4
September 1998 .....	70.3	70.0	54.3	48.5	—	49.4	77.0	77.2	NA	56.0	—	56.8
October 1997 .....	85.3	85.7	69.8	64.5	—	65.4	94.1	94.3	73.9	70.4	—	71.7
<b>Ohio</b>												
October 1998 .....	62.3	61.9	55.0	47.1	44.3	49.9	71.4	70.9	61.8	50.4	—	56.2
September 1998 .....	60.8	60.5	54.2	46.4	43.0	49.1	70.2	69.7	60.6	49.4	—	55.2
October 1997 .....	75.8	75.5	66.7	60.7	58.4	63.1	83.8	83.5	72.8	63.7	—	68.9
<b>Oklahoma</b>												
October 1998 .....	58.2	58.0	48.8	46.4	43.0	45.3	64.5	64.4	55.2	48.8	—	53.5
September 1998 .....	57.1	57.0	48.8	45.9	43.2	44.7	62.9	62.9	55.2	47.7	—	52.6
October 1997 .....	71.3	71.4	64.1	60.7	57.4	59.6	77.5	77.3	69.9	63.7	—	67.2
<b>South Dakota</b>												
October 1998 .....	69.2	69.5	54.4	49.0	—	50.3	70.3	71.1	54.6	NA	—	54.0
September 1998 .....	69.2	69.5	54.9	48.8	—	50.4	71.5	72.0	56.8	NA	—	54.4
October 1997 .....	84.8	85.0	71.9	64.5	—	66.2	87.2	88.1	77.2	NA	—	70.7
<b>Tennessee</b>												
October 1998 .....	56.5	56.2	52.4	46.7	—	47.5	66.2	66.1	61.2	51.4	—	53.4
September 1998 .....	53.7	53.4	51.7	44.1	—	45.2	63.3	63.3	60.7	48.7	—	51.3
October 1997 .....	73.6	73.3	69.3	59.9	—	61.4	83.7	83.5	78.3	64.5	—	67.6
<b>Wisconsin</b>												
October 1998 .....	61.7	61.6	54.4	47.5	W	48.7	69.4	69.5	NA	52.9	—	55.2
September 1998 .....	61.6	61.7	54.6	47.6	W	48.8	69.4	69.6	60.0	53.1	—	55.2
October 1997 .....	76.5	76.3	68.4	61.7	W	63.0	83.3	83.5	74.3	66.5	—	68.9
<b>PAD District III</b>												
October 1998 .....	57.3	57.0	52.1	46.2	41.7	45.5	67.7	67.2	57.9	50.5	—	52.7
September 1998 .....	55.7	55.6	50.8	43.3	39.2	43.0	66.5	66.1	56.5	47.3	—	50.2
October 1997 .....	75.6	75.0	67.9	60.7	56.8	60.3	85.4	84.7	74.1	64.2	—	67.1
<b>Alabama</b>												
October 1998 .....	59.5	59.1	52.5	46.6	—	48.3	68.0	67.2	57.9	51.3	—	53.9
September 1998 .....	58.5	58.1	51.5	43.5	—	46.0	67.0	66.3	56.9	48.2	—	52.1
October 1997 .....	78.1	77.6	66.5	59.2	—	61.3	86.8	86.0	72.8	63.9	—	67.1
<b>Arkansas</b>												
October 1998 .....	57.1	56.3	50.7	47.0	W	47.4	67.0	65.9	54.3	50.9	—	51.8
September 1998 .....	56.0	56.0	51.1	44.8	W	45.5	65.4	64.6	55.3	48.4	—	50.0
October 1997 .....	73.3	72.3	64.5	60.3	W	60.8	82.8	81.6	68.0	64.0	—	65.0
<b>Louisiana</b>												
October 1998 .....	57.2	56.6	54.5	45.3	40.5	46.0	68.8	68.1	60.3	49.7	—	53.5
September 1998 .....	57.2	56.4	53.4	42.1	38.7	42.8	68.3	67.5	59.4	46.1	—	50.3
October 1997 .....	75.6	75.0	71.4	58.2	55.8	60.0	85.8	84.9	76.7	62.7	—	67.8
<b>Mississippi</b>												
October 1998 .....	60.5	60.4	55.2	45.7	41.9	47.4	70.3	70.0	61.4	50.3	—	54.1
September 1998 .....	59.4	59.2	55.6	42.8	38.1	43.9	69.1	68.8	60.7	47.1	—	51.6
October 1997 .....	78.0	77.0	69.7	58.8	56.4	60.5	87.4	86.8	75.9	63.2	—	67.5
<b>New Mexico</b>												
October 1998 .....	63.5	63.0	52.6	49.3	—	50.0	72.4	72.0	58.8	53.9	—	54.9
September 1998 .....	64.0	63.6	51.6	46.6	—	47.5	73.9	73.6	56.3	51.1	—	52.0
October 1997 .....	84.9	84.5	74.3	71.6	—	72.1	93.2	92.9	80.7	76.2	—	76.8
<b>Texas</b>												
October 1998 .....	56.0	55.9	50.9	45.9	41.8	44.5	66.6	66.3	56.8	50.2	—	51.9
September 1998 .....	53.9	54.0	48.6	43.1	39.3	42.0	65.1	64.8	54.4	47.1	—	49.1
October 1997 .....	74.2	73.8	67.4	60.9	56.9	59.6	84.2	83.7	74.0	64.0	—	66.5
<b>PAD District IV</b>												
October 1998 .....	67.4	67.2	59.9	55.7	W	56.7	78.2	77.6	64.2	61.0	—	62.4
September 1998 .....	67.2	67.1	59.3	55.1	—	56.3	77.7	77.3	63.9	59.5	—	61.5
October 1997 .....	88.2	87.9	80.2	75.0	W	76.1	97.6	96.9	84.2	79.8	—	81.6
<b>Colorado</b>												
October 1998 .....	65.7	65.1	NA	49.8	W	50.7	79.7	79.0	NA	54.1	—	56.1
September 1998 .....	64.6	64.1	52.9	48.5	—	49.5	78.6	77.9	57.9	52.4	—	54.3
October 1997 .....	86.7	86.1	76.2	69.0	W	70.2	98.2	97.6	81.4	72.9	—	75.7

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
October 1998 .....	74.0	73.6	NA	56.0	—	57.3	62.9	63.0	53.9	48.9	—	49.8
September 1998 .....	74.5	74.3	61.7	56.5	—	57.5	63.2	63.2	52.9	48.7	—	49.3
October 1997 .....	89.0	89.0	76.7	70.8	—	71.9	78.4	78.7	68.7	63.8	—	64.6
<b>North Dakota</b>												
October 1998 .....	76.0	75.1	64.5	58.1	—	59.7	70.7	70.7	56.0	50.1	—	51.1
September 1998 .....	76.1	75.5	64.0	57.6	—	59.2	71.2	71.0	55.6	49.4	—	50.4
October 1997 .....	91.5	91.1	79.7	72.9	—	75.0	86.4	86.8	71.0	65.1	—	66.2
<b>Ohio</b>												
October 1998 .....	79.3	78.5	68.2	57.1	—	62.2	65.9	65.4	58.0	48.8	44.3	52.3
September 1998 .....	78.2	77.4	67.4	56.5	—	61.4	64.4	64.0	57.2	48.1	43.0	51.5
October 1997 .....	90.9	90.3	79.2	70.1	W	74.3	78.9	78.5	69.5	62.2	59.0	65.2
<b>Oklahoma</b>												
October 1998 .....	70.6	70.1	56.7	53.8	47.5	53.1	60.8	60.5	50.2	47.6	43.3	46.3
September 1998 .....	69.3	68.8	56.2	53.1	47.3	52.5	59.6	59.4	50.0	47.1	43.3	45.5
October 1997 .....	83.4	83.1	71.2	68.0	62.5	67.5	73.5	73.5	65.4	61.7	57.6	60.5
<b>South Dakota</b>												
October 1998 .....	83.5	83.4	61.1	58.1	—	58.9	70.0	70.4	54.9	50.0	—	51.2
September 1998 .....	83.4	83.3	62.0	57.6	—	58.8	70.3	70.6	55.6	49.8	—	51.3
October 1997 .....	97.7	97.9	81.2	73.7	—	76.5	85.7	86.0	73.1	65.2	—	67.2
<b>Tennessee</b>												
October 1998 .....	75.7	75.2	67.0	56.7	—	58.2	62.1	61.8	56.8	49.5	—	50.6
September 1998 .....	72.8	72.4	65.0	54.2	—	55.7	59.1	58.9	55.9	46.9	—	48.2
October 1997 .....	91.8	91.3	85.1	69.9	—	72.6	78.6	78.3	74.0	62.4	—	64.5
<b>Wisconsin</b>												
October 1998 .....	74.9	74.5	65.0	57.6	—	59.1	63.8	63.6	56.3	48.8	W	50.1
September 1998 .....	75.8	75.5	65.0	57.9	—	59.3	63.7	63.7	56.5	49.0	W	50.3
October 1997 .....	88.1	87.6	77.3	70.3	—	71.8	78.1	77.9	69.9	62.8	W	64.2
<b>PAD District III</b>												
October 1998 .....	74.6	74.1	64.5	56.1	45.7	56.3	61.7	61.3	55.3	48.3	42.1	47.7
September 1998 .....	73.0	72.3	62.6	53.1	44.2	53.0	60.3	60.0	53.8	45.4	39.7	45.1
October 1997 .....	93.0	92.1	79.9	69.9	60.1	70.0	79.7	78.9	71.0	62.5	57.1	62.2
<b>Alabama</b>												
October 1998 .....	74.9	74.4	65.8	57.0	—	59.7	64.0	63.6	56.2	49.4	—	51.5
September 1998 .....	74.1	73.2	64.1	54.1	—	57.1	63.1	62.6	54.9	46.4	—	49.2
October 1997 .....	95.5	94.4	79.8	69.8	—	72.7	82.6	82.0	70.1	61.9	—	64.3
<b>Arkansas</b>												
October 1998 .....	75.1	73.0	61.2	56.7	W	56.0	60.8	59.6	53.0	49.0	W	49.5
September 1998 .....	73.3	71.8	62.1	54.4	W	54.4	59.5	59.0	53.6	46.8	W	47.7
October 1997 .....	90.5	88.2	74.1	69.6	W	69.6	76.6	75.1	66.7	62.1	W	62.7
<b>Louisiana</b>												
October 1998 .....	76.8	75.3	67.5	55.2	42.2	55.9	62.9	62.2	58.4	47.8	40.8	48.9
September 1998 .....	77.0	75.1	66.1	51.9	44.2	50.5	62.9	61.9	57.2	44.6	40.7	45.5
October 1997 .....	94.0	92.6	83.9	68.0	61.3	69.1	80.7	79.8	75.2	60.6	57.5	62.9
<b>Mississippi</b>												
October 1998 .....	76.0	75.4	67.5	55.9	W	58.0	65.1	64.9	58.2	48.2	42.1	50.0
September 1998 .....	75.1	74.4	64.6	53.0	W	54.6	64.0	63.7	57.8	45.3	38.4	46.3
October 1997 .....	96.4	93.9	81.6	68.9	W	71.6	82.4	81.3	72.4	61.1	56.5	62.9
<b>New Mexico</b>												
October 1998 .....	80.1	79.6	62.1	58.9	—	59.5	66.4	65.9	54.5	51.1	—	51.7
September 1998 .....	80.5	80.0	61.5	56.3	—	57.3	67.1	66.7	53.5	48.3	—	49.2
October 1997 .....	99.3	98.5	84.2	81.0	—	81.6	87.4	87.0	76.1	73.2	—	73.6
<b>Texas</b>												
October 1998 .....	73.6	73.5	62.8	55.8	46.3	54.9	60.3	60.0	53.8	47.8	42.1	46.2
September 1998 .....	71.4	70.9	60.7	52.5	43.9	52.0	58.3	58.2	51.6	44.9	39.7	43.7
October 1997 .....	91.7	91.3	78.9	69.8	59.5	68.7	78.2	77.7	70.3	62.4	57.1	61.0
<b>PAD District IV</b>												
October 1998 .....	85.5	83.7	68.8	65.8	W	66.7	72.0	71.3	62.4	57.9	W	59.2
September 1998 .....	85.4	83.6	68.4	65.1	—	66.2	71.8	71.1	61.8	57.3	—	58.7
October 1997 .....	104.7	103.1	89.3	85.5	W	86.4	91.9	91.2	82.4	77.1	W	78.4
<b>Colorado</b>												
October 1998 .....	87.0	84.7	NA	58.9	W	60.2	71.5	70.6	NA	51.8	W	53.0
September 1998 .....	85.8	83.5	62.0	57.4	—	58.8	70.3	69.4	55.6	50.4	—	51.8
October 1997 .....	105.2	103.5	86.1	78.0	W	79.6	91.0	90.2	78.8	70.7	W	72.3

See footnotes at end of table.



**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
October 1998 .....	71.3	71.4	64.5	61.3	—	62.3	78.9	78.8	69.4	66.2	—	67.2
September 1998 .....	72.0	72.2	64.7	61.3	—	62.5	80.1	80.1	69.6	65.9	—	67.6
October 1997 .....	90.6	90.8	84.0	81.6	—	82.5	97.7	97.4	88.8	86.1	—	87.2
<b>Montana</b>												
October 1998 .....	71.1	71.3	62.0	58.1	—	58.6	75.4	75.7	65.0	63.4	—	63.6
September 1998 .....	73.3	73.5	63.2	58.9	—	59.5	79.0	79.2	66.4	64.0	—	64.2
October 1997 .....	91.6	91.4	79.6	76.3	—	76.7	97.7	97.8	84.4	82.4	—	82.6
<b>Utah</b>												
October 1998 .....	66.5	65.8	60.8	59.6	—	60.1	75.1	74.6	65.9	65.5	—	65.7
September 1998 .....	66.3	65.5	59.3	58.5	—	58.8	74.4	74.1	65.6	64.8	—	65.3
October 1997 .....	87.9	87.3	80.6	79.8	—	80.1	95.7	94.9	84.6	85.4	—	85.0
<b>Wyoming</b>												
October 1998 .....	73.0	71.7	60.8	53.6	—	54.7	79.9	79.1	69.0	64.2	—	66.3
September 1998 .....	74.4	72.6	62.1	54.1	—	55.5	81.5	80.4	66.5	64.2	—	65.2
October 1997 .....	92.3	91.1	80.5	74.0	—	75.1	100.0	98.1	84.5	82.6	—	83.5
<b>PAD District V</b>												
October 1998 .....	68.3	67.3	61.3	53.8	NA	56.6	77.8	77.3	67.8	59.1	NA	65.8
September 1998 .....	68.7	67.8	61.8	53.7	49.4	57.1	77.5	77.1	67.9	59.2	W	65.7
October 1997 .....	95.8	94.5	87.1	78.1	73.2	81.8	105.1	104.4	93.1	84.8	W	91.2
<b>Alaska</b>												
October 1998 .....	93.5	94.0	83.6	68.7	W	74.0	105.0	103.3	83.5	81.1	—	82.8
September 1998 .....	93.7	92.6	83.8	65.2	W	71.6	102.1	100.6	82.0	81.4	—	81.8
October 1997 .....	115.7	114.6	98.9	81.7	W	90.8	120.9	120.2	103.0	94.8	—	101.9
<b>Arizona</b>												
October 1998 .....	66.0	65.2	57.2	50.2	45.7	53.8	75.9	75.7	64.0	56.1	—	62.0
September 1998 .....	66.5	65.9	56.2	48.9	46.9	52.9	76.3	76.1	63.2	54.8	—	60.9
October 1997 .....	97.1	96.1	86.6	79.1	73.4	83.6	106.0	105.9	92.3	85.9	—	90.9
<b>California</b>												
October 1998 .....	67.3	66.4	61.6	53.3	NA	56.4	76.9	76.6	67.6	58.5	NA	65.9
September 1998 .....	67.7	66.9	61.9	53.8	50.0	57.3	76.6	76.3	67.6	58.9	W	65.8
October 1997 .....	94.0	92.6	87.9	78.8	73.6	82.1	104.4	103.4	93.5	84.7	W	91.9
<b>Hawaii</b>												
October 1998 .....	104.0	90.0	93.0	80.5	—	91.1	110.4	101.4	97.8	85.8	—	97.3
September 1998 .....	105.0	90.8	93.4	80.8	—	91.4	111.4	102.2	97.7	87.1	—	97.3
October 1997 .....	111.5	105.5	103.4	NA	—	101.2	118.5	113.8	108.1	W	—	107.8
<b>Nevada</b>												
October 1998 .....	71.1	64.5	58.7	54.5	47.9	55.7	80.3	76.3	65.8	58.6	—	63.8
September 1998 .....	71.3	65.1	58.4	53.3	47.8	54.7	79.4	74.6	65.1	58.2	—	63.0
October 1997 .....	99.1	98.4	84.8	82.0	NA	82.7	109.6	109.3	90.4	90.9	—	90.5
<b>Oregon</b>												
October 1998 .....	69.2	68.9	59.5	52.7	NA	55.0	80.4	79.2	67.0	59.5	—	63.9
September 1998 .....	70.1	69.6	59.9	52.3	48.0	54.5	80.7	79.8	67.5	59.3	—	63.9
October 1997 .....	98.7	96.8	85.0	76.3	66.9	78.8	108.7	107.3	92.7	84.6	—	89.0
<b>Washington</b>												
October 1998 .....	65.5	65.7	58.9	54.5	NA	56.4	77.6	77.6	66.0	60.6	—	64.1
September 1998 .....	66.2	66.4	60.9	54.2	46.2	57.2	77.9	77.9	67.6	60.7	—	65.1
October 1997 .....	93.5	93.2	83.0	75.3	65.9	79.2	103.2	103.0	89.3	83.7	—	87.1

See footnotes at end of table.

**Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
October 1998 .....	87.1	85.8	75.6	71.6	—	72.8	73.9	73.7	66.4	63.1	—	64.1
September 1998 .....	88.2	87.0	75.4	71.6	—	73.1	74.8	74.6	66.8	63.0	—	64.4
October 1997 .....	104.2	103.5	94.3	91.6	—	92.7	92.7	92.6	85.9	83.2	—	84.2
<b>Montana</b>												
October 1998 .....	84.1	83.9	73.4	70.2	—	70.6	73.5	73.5	64.2	60.6	—	61.1
September 1998 .....	86.1	86.0	73.2	70.5	—	70.9	75.9	75.8	65.1	61.2	—	61.8
October 1997 .....	102.3	102.1	91.2	88.5	—	88.7	93.5	93.3	81.5	79.1	—	79.4
<b>Utah</b>												
October 1998 .....	82.2	80.7	69.9	69.2	—	69.5	70.7	69.9	64.0	62.4	—	63.1
September 1998 .....	82.7	81.0	69.1	68.3	—	68.7	70.5	69.5	62.8	61.4	—	62.0
October 1997 .....	104.7	103.1	88.6	89.6	—	89.2	92.2	91.3	83.2	82.4	—	82.7
<b>Wyoming</b>												
October 1998 .....	85.4	84.1	71.1	63.9	—	65.2	75.9	74.4	63.5	55.7	—	56.9
September 1998 .....	87.7	86.1	NA	64.3	—	66.3	77.7	75.8	64.8	56.2	—	57.9
October 1997 .....	104.3	101.8	91.6	83.9	—	85.4	95.0	93.4	82.9	75.8	—	77.1
<b>PAD District V</b>												
October 1998 .....	87.6	86.4	76.5	65.7	NA	71.1	72.5	71.5	65.0	55.8	NA	59.9
September 1998 .....	87.1	86.0	76.5	65.7	53.2	71.3	72.8	71.8	65.4	55.7	49.9	60.3
October 1997 .....	114.7	113.3	101.8	90.2	75.2	96.5	99.5	98.2	90.4	80.1	73.4	84.9
<b>Alaska</b>												
October 1998 .....	110.7	110.7	93.8	80.3	—	86.8	96.4	96.7	84.9	70.0	W	75.6
September 1998 .....	109.5	109.4	92.7	76.1	—	83.2	96.0	95.0	84.8	66.5	W	73.0
October 1997 .....	128.1	126.9	107.3	95.8	—	102.4	117.6	116.6	99.9	83.2	W	92.1
<b>Arizona</b>												
October 1998 .....	86.4	86.1	71.3	62.3	W	67.5	70.0	69.2	60.1	52.1	46.9	56.4
September 1998 .....	86.6	86.2	70.2	61.3	53.4	66.5	70.6	69.9	59.1	50.9	47.6	55.5
October 1997 .....	115.5	115.1	99.7	88.8	NA	95.1	100.4	99.4	89.2	81.4	72.9	86.1
<b>California</b>												
October 1998 .....	86.0	85.0	76.5	64.4	52.2	71.3	71.9	71.0	65.6	55.3	NA	60.0
September 1998 .....	85.3	84.5	76.3	64.9	53.7	71.6	72.1	71.2	65.7	55.7	50.4	60.7
October 1997 .....	113.6	112.2	102.5	90.6	75.4	97.4	98.4	96.9	91.4	80.7	73.7	85.5
<b>Hawaii</b>												
October 1998 .....	119.1	105.8	104.6	91.4	—	103.2	108.4	94.8	96.8	83.2	—	95.1
September 1998 .....	121.2	107.0	104.8	92.9	—	103.4	109.7	95.8	97.2	84.0	—	95.4
October 1997 .....	128.2	120.0	115.1	NA	—	113.7	116.2	109.7	107.4	NA	—	105.5
<b>Nevada</b>												
October 1998 .....	87.5	82.6	72.1	64.8	54.5	67.8	74.9	68.2	61.9	56.1	48.8	58.2
September 1998 .....	86.7	82.0	72.4	63.4	54.2	66.9	75.0	68.7	62.0	55.0	48.6	57.4
October 1997 .....	115.1	114.2	98.0	90.9	W	93.9	102.3	101.6	87.7	83.5	NA	84.9
<b>Oregon</b>												
October 1998 .....	89.1	87.6	74.8	67.3	NA	67.7	72.3	71.7	61.9	54.8	NA	57.1
September 1998 .....	89.4	88.3	74.5	67.2	NA	67.6	73.0	72.5	62.3	54.4	48.4	56.7
October 1997 .....	117.6	114.5	99.4	90.6	76.0	90.8	101.1	99.2	87.0	77.9	69.6	80.7
<b>Washington</b>												
October 1998 .....	87.1	86.7	73.9	67.6	NA	69.1	69.8	69.8	62.0	56.8	NA	59.1
September 1998 .....	87.7	87.2	75.1	67.5	NA	69.9	70.5	70.5	63.8	56.6	47.4	59.9
October 1997 .....	113.1	112.3	96.8	88.5	W	92.9	96.9	96.7	85.6	77.7	66.8	81.7

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	59.7	59.6	53.3	47.4	42.6	48.1	68.7	68.4	59.5	51.8	—	54.8
September 1998 .....	58.8	58.7	52.7	45.8	40.8	46.7	67.8	67.5	58.9	49.7	—	53.3
October 1997 .....	77.4	77.2	69.6	62.3	57.7	63.3	85.9	85.4	75.3	66.0	—	69.7
<b>PAD District I</b>												
October 1998 .....	57.5	57.3	50.8	46.7	43.0	47.8	67.0	66.8	58.0	50.9	—	53.8
September 1998 .....	55.6	55.4	49.8	44.2	41.1	45.7	65.3	65.1	56.8	48.1	—	51.6
October 1997 .....	76.2	75.7	68.4	60.7	58.4	62.7	85.4	84.7	73.8	64.6	—	68.3
<b>Subdistrict IA</b>												
October 1998 .....	66.5	66.4	59.0	49.5	W	53.6	76.5	75.8	66.2	53.6	—	60.3
September 1998 .....	65.4	65.2	57.2	47.5	—	51.9	75.7	75.3	64.8	51.6	—	58.7
October 1997 .....	88.0	87.5	76.8	65.9	W	69.0	97.1	96.1	84.4	69.8	—	77.0
<b>Connecticut</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maine</b>												
October 1998 .....	69.1	68.8	58.9	49.4	—	52.2	79.3	78.4	65.9	53.5	—	58.7
September 1998 .....	68.1	67.8	56.8	47.5	—	50.4	78.4	78.0	64.7	51.6	—	57.1
October 1997 .....	89.8	89.2	75.9	65.5	W	66.5	98.6	97.7	84.1	69.4	—	75.0
<b>Massachusetts</b>												
October 1998 .....	—	—	—	—	W	W	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
October 1998 .....	64.1	64.0	58.1	49.1	—	54.2	73.4	73.1	63.5	53.3	—	59.5
September 1998 .....	62.9	62.8	56.1	47.0	—	52.0	72.9	72.6	61.7	51.3	—	59.8
October 1997 .....	85.6	85.2	75.4	66.3	—	72.8	94.6	93.9	80.1	71.2	—	77.6
<b>Rhode Island</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
October 1998 .....	63.9	64.0	59.2	50.3	—	56.4	73.0	72.5	67.4	53.9	—	63.6
September 1998 .....	62.1	62.4	57.8	47.6	—	54.6	71.4	70.9	66.1	51.8	—	61.9
October 1997 .....	86.4	86.2	77.9	67.1	—	74.3	95.3	94.2	85.9	71.3	—	81.5
<b>Subdistrict IB</b>												
October 1998 .....	58.4	58.3	51.5	47.3	42.8	47.6	66.9	66.6	56.7	51.6	—	54.0
September 1998 .....	57.0	56.9	50.0	45.3	41.1	45.8	65.5	65.3	56.6	48.8	—	52.4
October 1997 .....	79.0	78.8	70.6	63.5	58.4	63.8	86.5	86.4	74.6	67.2	—	70.4
<b>Delaware</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
October 1998 .....	60.0	59.8	51.7	46.3	—	47.6	68.8	68.6	61.2	50.9	—	53.1
September 1998 .....	59.0	58.9	50.2	43.7	—	45.2	68.1	68.0	60.5	48.2	—	50.8
October 1997 .....	80.0	79.2	67.0	61.8	—	63.0	88.8	88.1	NA	66.4	—	67.5
<b>New Jersey</b>												
October 1998 .....	—	—	—	—	42.2	42.2	—	—	—	—	—	—
September 1998 .....	—	—	—	—	40.0	40.0	—	—	—	—	—	—
October 1997 .....	—	—	—	—	58.3	58.3	—	—	—	—	—	—
<b>New York</b>												
October 1998 .....	59.7	59.2	51.8	47.7	NA	49.0	68.3	66.9	56.8	52.0	—	54.4
September 1998 .....	58.3	57.8	49.7	45.9	NA	47.1	67.1	65.5	55.0	49.8	—	52.4
October 1997 .....	82.7	82.2	74.3	64.9	57.5	66.9	91.5	90.4	79.4	69.1	—	74.3
<b>Pennsylvania</b>												
October 1998 .....	57.5	57.6	51.2	47.0	43.7	47.9	66.3	66.4	56.6	51.6	—	54.0
September 1998 .....	56.1	56.3	50.2	45.0	42.4	46.1	64.9	65.0	57.1	48.6	—	52.6
October 1997 .....	76.7	76.7	68.3	62.6	58.8	63.7	85.0	85.0	73.1	66.8	—	69.5

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	76.4	75.7	65.0	57.2	47.3	59.0	63.5	63.2	56.2	49.4	43.0	50.4
September 1998 .....	75.3	74.6	64.2	55.3	46.2	57.4	62.6	62.3	55.6	47.7	41.2	49.0
October 1997 .....	93.8	92.9	81.5	71.6	61.7	73.9	80.9	80.5	72.4	64.0	58.0	65.4
<b>PAD District I</b>												
October 1998 .....	75.3	74.6	62.3	56.5	47.8	58.4	62.3	62.1	54.3	49.1	43.6	50.6
September 1998 .....	73.5	72.8	61.3	53.9	47.9	56.5	60.5	60.3	53.3	46.5	41.9	48.5
October 1997 .....	94.0	92.8	80.5	70.4	62.7	73.7	80.6	80.1	71.6	62.8	58.8	65.2
<b>Subdistrict 1A</b>												
October 1998 .....	85.7	85.3	71.6	58.6	—	65.7	70.2	69.9	61.8	50.9	W	55.9
September 1998 .....	85.0	84.7	70.4	56.7	—	64.6	69.2	69.0	60.3	48.9	—	54.4
October 1997 .....	105.9	105.2	89.4	75.5	—	82.4	91.2	90.6	79.3	67.4	W	71.2
<b>Connecticut</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maine</b>												
October 1998 .....	89.8	89.2	72.1	58.3	—	63.0	73.0	72.6	61.6	50.8	—	54.1
September 1998 .....	89.3	88.8	71.7	56.7	—	62.3	72.1	71.9	59.9	49.0	—	52.6
October 1997 .....	108.7	107.9	89.8	75.1	—	80.0	93.1	92.5	78.6	67.0	W	68.5
<b>Massachusetts</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	W	W
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
October 1998 .....	83.4	83.4	70.1	58.8	—	66.4	67.6	67.5	60.5	50.5	—	56.4
September 1998 .....	82.7	82.7	68.7	56.0	—	66.8	66.6	66.6	59.0	47.6	—	54.6
October 1997 .....	103.5	103.5	88.0	76.0	—	84.8	88.7	88.3	77.8	68.0	—	75.0
<b>Rhode Island</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
October 1998 .....	80.9	80.5	71.8	59.4	—	68.8	67.2	67.1	62.4	51.9	—	59.3
September 1998 .....	79.4	79.2	70.1	56.7	—	66.9	65.6	65.6	61.0	49.3	—	57.6
October 1997 .....	103.1	101.9	89.4	76.6	—	85.3	89.5	89.0	80.3	68.8	—	76.6
<b>Subdistrict 1B</b>												
October 1998 .....	74.3	73.9	62.7	56.8	47.6	57.5	61.8	61.7	53.9	49.0	43.4	49.5
September 1998 .....	73.3	72.7	61.3	54.6	47.4	55.9	60.6	60.4	52.6	47.0	41.8	47.8
October 1997 .....	95.4	94.4	81.7	72.8	63.7	74.6	82.1	81.9	72.8	65.1	58.7	65.6
<b>Delaware</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
October 1998 .....	76.0	75.5	63.0	56.9	—	58.1	64.6	64.3	54.2	48.6	—	49.9
September 1998 .....	75.1	74.7	61.4	54.3	—	55.6	63.9	63.9	53.0	46.0	—	47.5
October 1997 .....	95.1	93.9	77.0	72.2	—	73.2	84.1	83.2	69.1	64.0	—	65.2
<b>New Jersey</b>												
October 1998 .....	—	—	—	—	47.3	47.3	—	—	—	—	42.5	42.5
September 1998 .....	—	—	—	—	47.5	47.5	—	—	—	—	40.4	40.4
October 1997 .....	—	—	—	—	63.0	63.0	—	—	—	—	58.5	58.5
<b>New York</b>												
October 1998 .....	75.4	74.2	63.2	57.1	W	59.3	62.5	61.9	53.8	49.2	NA	50.7
September 1998 .....	74.1	72.5	60.9	55.3	W	57.3	61.2	61.2	51.8	47.5	NA	48.9
October 1997 .....	99.0	96.6	84.5	74.6	W	77.3	85.4	84.6	76.3	66.3	57.7	68.6
<b>Pennsylvania</b>												
October 1998 .....	73.7	73.6	62.4	56.7	47.7	57.2	61.3	61.4	54.0	48.9	44.8	50.1
September 1998 .....	72.8	72.7	61.5	54.2	47.2	55.6	60.0	60.2	53.2	46.8	43.3	48.3
October 1997 .....	93.8	93.3	80.2	72.0	65.4	74.0	80.3	80.3	70.8	64.4	59.6	65.8

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
October 1998 .....	56.8	56.5	50.0	46.4	NA	47.6	66.8	66.6	58.1	50.8	—	53.6
September 1998 .....	54.6	54.4	49.2	43.7	NA	45.4	64.9	64.7	56.5	47.8	—	51.2
October 1997 .....	74.5	74.0	66.8	59.5	58.1	61.7	84.6	83.8	73.2	64.0	—	67.5
<b>Florida</b>												
October 1998 .....	57.9	57.4	51.3	46.7	NA	48.0	68.8	68.2	58.8	50.7	—	54.1
September 1998 .....	55.5	55.0	48.8	43.7	W	45.1	66.6	66.1	56.6	47.5	—	51.3
October 1997 .....	76.9	76.0	69.5	59.7	W	62.5	87.8	86.9	77.4	63.9	—	69.6
<b>Georgia</b>												
October 1998 .....	55.8	55.8	49.7	46.2	—	47.4	64.8	65.0	54.9	51.2	—	52.9
September 1998 .....	52.6	52.7	49.7	43.7	W	45.6	62.6	63.1	54.4	48.2	—	51.2
October 1997 .....	71.1	70.8	63.7	59.1	—	60.5	80.3	79.4	68.7	64.4	—	66.2
<b>North Carolina</b>												
October 1998 .....	56.1	55.4	47.5	46.6	—	46.9	66.2	65.9	59.7	51.2	—	53.7
September 1998 .....	54.4	53.9	47.8	43.8	W	45.1	64.5	64.1	58.0	48.3	—	51.2
October 1997 .....	73.8	73.2	65.9	59.7	W	61.3	84.1	83.3	73.8	64.3	—	67.1
<b>South Carolina</b>												
October 1998 .....	54.5	54.7	48.4	46.7	—	47.2	64.6	64.4	54.2	51.5	—	52.3
September 1998 .....	52.7	53.2	46.6	44.0	—	44.6	63.2	62.9	51.7	48.6	—	49.6
October 1997 .....	71.6	71.9	63.9	59.7	—	60.6	81.6	81.5	69.4	64.6	—	66.1
<b>Virginia</b>												
October 1998 .....	58.3	58.5	52.7	45.3	NA	47.8	68.1	68.1	62.7	48.0	—	53.0
September 1998 .....	57.5	57.8	51.4	42.7	W	45.5	67.2	67.1	61.2	45.3	—	50.9
October 1997 .....	76.9	76.6	69.1	58.6	W	62.7	86.3	85.7	71.1	61.8	—	65.6
<b>West Virginia</b>												
October 1998 .....	57.7	57.7	56.3	50.1	—	54.0	66.8	66.6	61.4	54.7	—	58.8
September 1998 .....	56.5	56.5	55.5	47.7	—	52.4	65.6	65.4	61.4	52.9	—	58.3
October 1997 .....	78.1	77.8	68.9	62.0	—	66.3	87.0	86.6	74.7	66.0	—	71.6
<b>PAD District II</b>												
October 1998 .....	59.7	59.6	52.6	46.9	43.5	47.9	67.7	67.6	58.5	51.7	—	54.2
September 1998 .....	59.1	59.1	52.4	46.2	42.8	47.2	67.2	67.1	58.5	50.6	—	53.5
October 1997 .....	75.2	75.2	66.2	61.2	57.6	62.0	82.6	82.5	72.2	65.4	—	68.2
<b>Illinois</b>												
October 1998 .....	61.0	61.2	56.6	46.1	44.7	46.5	63.8	64.4	56.1	49.1	—	50.7
September 1998 .....	60.8	61.1	56.7	45.7	41.7	45.3	64.1	64.7	55.8	49.8	—	51.2
October 1997 .....	76.5	76.7	69.7	60.5	57.9	60.6	80.3	80.9	73.9	64.7	—	67.4
<b>Indiana</b>												
October 1998 .....	59.5	59.5	52.1	45.7	42.4	47.0	67.3	67.2	57.8	49.6	—	52.9
September 1998 .....	59.7	59.7	52.9	44.9	41.4	46.6	68.5	68.3	57.9	48.9	—	52.6
October 1997 .....	74.8	74.6	65.2	60.1	57.6	61.7	82.2	81.7	71.1	63.3	—	66.7
<b>Iowa</b>												
October 1998 .....	58.5	59.0	51.8	48.0	—	48.3	65.4	65.4	56.4	55.9	—	56.0
September 1998 .....	59.1	59.6	51.7	47.7	—	48.1	65.1	65.1	56.3	53.7	—	54.3
October 1997 .....	78.5	78.7	67.7	62.5	—	63.0	82.6	82.8	71.0	69.1	—	69.6
<b>Kansas</b>												
October 1998 .....	58.5	58.2	52.9	46.9	W	47.2	63.2	63.1	NA	51.5	—	53.0
September 1998 .....	58.9	58.7	52.0	46.6	W	46.9	64.3	64.3	NA	51.4	—	52.7
October 1997 .....	75.4	75.3	67.2	61.7	56.9	61.7	81.6	81.5	71.1	66.2	—	68.8
<b>Kentucky</b>												
October 1998 .....	59.3	58.8	51.9	47.8	W	48.5	69.2	68.7	56.9	52.0	—	53.4
September 1998 .....	57.6	57.1	50.8	45.4	W	46.6	66.8	66.1	56.2	49.7	—	51.8
October 1997 .....	76.1	75.3	64.8	60.5	—	61.7	85.1	84.2	71.0	65.1	—	67.4
<b>Michigan</b>												
October 1998 .....	58.9	58.8	50.7	46.8	—	48.5	68.3	68.4	57.5	50.2	—	55.2
September 1998 .....	58.7	58.6	50.7	47.3	—	48.7	68.7	68.7	58.5	50.4	—	56.0
October 1997 .....	73.6	73.7	64.2	61.2	—	62.4	82.0	81.9	69.7	63.7	—	68.1
<b>Minnesota</b>												
October 1998 .....	—	—	—	48.1	W	47.5	—	—	—	55.6	—	55.6
September 1998 .....	—	—	—	47.7	W	47.5	—	—	—	53.4	—	53.4
October 1997 .....	—	—	—	63.7	W	62.7	—	—	—	70.0	—	70.0
<b>Missouri</b>												
October 1998 .....	56.5	57.1	54.8	46.5	—	48.9	64.7	65.2	57.7	51.1	—	54.7
September 1998 .....	56.1	56.7	54.7	46.2	—	48.8	65.0	65.6	NA	51.3	—	55.4
October 1997 .....	73.2	73.9	67.4	61.5	—	63.3	80.9	81.1	72.5	66.7	—	70.3

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Subdistrict IC</b>												
October 1998 .....	75.3	74.5	61.9	56.4	W	58.4	62.1	61.9	54.0	49.0	NA	50.7
September 1998 .....	73.2	72.5	60.9	53.7	50.6	56.4	60.1	59.9	53.1	46.3	42.8	48.5
October 1997 .....	93.4	92.2	79.9	69.7	61.2	73.2	79.7	79.0	70.8	61.9	59.7	64.8
<b>Florida</b>												
October 1998 .....	75.7	74.6	65.1	56.7	W	60.3	63.4	63.0	56.9	49.3	W	51.9
September 1998 .....	73.5	72.5	62.9	53.8	W	57.7	61.1	60.7	54.7	46.3	43.2	49.2
October 1997 .....	95.6	93.8	84.2	69.9	W	76.0	82.3	81.4	75.4	62.2	W	66.8
<b>Georgia</b>												
October 1998 .....	73.7	73.8	61.4	56.2	—	58.2	60.7	61.0	53.1	48.8	—	50.3
September 1998 .....	71.3	71.6	60.7	53.7	—	56.3	57.9	58.4	53.0	46.2	W	48.6
October 1997 .....	89.4	88.5	75.5	69.5	—	71.6	75.7	75.4	66.9	61.6	—	63.3
<b>North Carolina</b>												
October 1998 .....	75.8	74.5	57.4	56.9	—	57.1	62.0	61.3	50.9	49.4	—	49.9
September 1998 .....	73.8	72.6	57.9	54.2	—	55.4	60.4	59.6	51.0	46.6	W	48.1
October 1997 .....	93.3	92.5	78.8	70.1	W	72.2	79.3	78.7	69.6	62.3	W	64.2
<b>South Carolina</b>												
October 1998 .....	73.5	73.1	59.1	56.8	—	57.4	59.7	59.7	51.2	49.3	—	49.8
September 1998 .....	71.9	71.3	57.8	54.2	—	55.1	58.0	58.2	49.4	46.5	—	47.3
October 1997 .....	90.8	90.3	75.6	70.2	—	71.5	76.4	76.4	66.8	62.1	—	63.2
<b>Virginia</b>												
October 1998 .....	77.1	76.8	62.4	53.8	W	57.2	63.7	63.8	56.0	47.3	W	50.3
September 1998 .....	75.9	75.9	61.4	51.4	W	55.2	62.7	63.0	54.8	44.7	NA	48.1
October 1997 .....	95.2	94.1	77.1	68.0	W	71.3	81.8	81.4	71.1	60.7	59.3	64.8
<b>West Virginia</b>												
October 1998 .....	75.5	75.1	68.2	60.3	—	65.3	61.6	61.6	59.0	52.5	—	56.6
September 1998 .....	74.4	74.1	67.2	58.1	—	63.8	60.4	60.4	58.2	50.0	—	55.1
October 1997 .....	95.5	94.8	81.4	71.7	—	77.5	81.8	81.5	71.5	64.1	—	68.7
<b>PAD District II</b>												
October 1998 .....	75.3	74.7	65.0	56.4	47.2	58.5	62.6	62.5	55.2	48.5	43.7	49.8
September 1998 .....	74.7	74.2	64.3	55.4	47.2	57.6	62.0	61.9	54.9	47.8	42.9	49.0
October 1997 .....	89.4	88.9	78.1	69.8	62.3	72.2	77.7	77.6	68.6	62.5	57.8	63.7
<b>Illinois</b>												
October 1998 .....	73.8	73.8	65.3	56.1	W	55.5	62.6	62.9	57.4	47.5	44.7	47.7
September 1998 .....	74.8	74.6	65.1	56.0	W	56.6	62.6	62.8	57.4	47.2	41.8	46.7
October 1997 .....	88.7	88.7	79.3	70.0	W	70.7	78.2	78.5	71.3	61.8	58.0	61.8
<b>Indiana</b>												
October 1998 .....	74.7	74.4	64.2	55.7	—	58.2	62.9	62.9	54.8	47.5	42.4	49.2
September 1998 .....	76.0	75.5	64.3	54.9	W	57.3	63.3	63.3	55.4	46.7	41.5	48.7
October 1997 .....	87.6	87.2	76.7	68.8	—	72.1	77.8	77.5	67.6	61.5	57.6	63.6
<b>Iowa</b>												
October 1998 .....	68.5	68.6	59.9	57.2	—	57.7	59.9	60.3	53.9	49.5	—	50.0
September 1998 .....	69.1	69.1	59.4	56.8	—	57.2	60.3	60.8	53.7	49.1	—	49.6
October 1997 .....	87.8	87.9	75.4	69.8	—	70.7	79.6	79.8	69.2	63.8	—	64.5
<b>Kansas</b>												
October 1998 .....	70.5	70.2	62.0	54.2	W	55.7	59.9	59.4	54.1	47.7	W	48.1
September 1998 .....	71.1	70.9	58.8	53.9	W	53.7	60.3	60.0	52.9	47.4	W	47.7
October 1997 .....	88.2	87.8	76.1	68.9	W	68.7	76.8	76.5	68.4	62.4	57.3	62.4
<b>Kentucky</b>												
October 1998 .....	78.1	76.8	62.8	57.8	—	59.0	63.8	63.2	54.5	50.0	W	50.8
September 1998 .....	76.5	75.1	61.9	55.3	—	56.9	62.1	61.4	53.5	47.6	W	49.0
October 1997 .....	92.7	90.8	76.1	70.2	—	71.9	79.9	79.0	67.5	62.6	—	64.0
<b>Michigan</b>												
October 1998 .....	74.6	73.8	63.3	57.3	—	59.9	61.5	61.3	53.2	48.4	—	50.5
September 1998 .....	74.6	73.9	63.2	57.4	—	59.9	61.3	61.2	53.4	48.9	—	50.8
October 1997 .....	88.3	88.1	76.2	70.4	—	73.2	75.9	76.0	66.4	62.2	—	64.0
<b>Minnesota</b>												
October 1998 .....	75.4	75.5	61.9	57.7	W	57.1	75.4	75.5	61.9	49.3	W	48.8
September 1998 .....	76.1	76.8	62.7	56.9	W	56.5	76.1	76.8	62.7	49.3	W	49.0
October 1997 .....	W	W	W	70.9	W	70.7	W	W	W	64.6	W	63.6
<b>Missouri</b>												
October 1998 .....	73.3	73.3	67.4	54.9	—	59.6	59.2	59.6	57.1	47.7	—	50.6
September 1998 .....	73.0	73.0	66.4	54.8	—	59.3	58.8	59.3	57.0	47.4	—	50.5
October 1997 .....	89.4	89.3	78.9	69.5	—	73.6	75.4	75.8	69.7	62.5	—	65.0

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
October 1998 .....	61.3	61.7	51.7	47.8	—	48.4	66.6	65.9	60.0	53.8	—	55.3
September 1998 .....	61.3	61.6	51.1	47.2	—	47.8	68.0	67.5	56.5	54.3	—	54.8
October 1997 .....	77.0	77.6	67.1	62.7	—	63.3	82.1	81.6	71.2	69.3	—	70.0
<b>North Dakota</b>												
October 1998 .....	69.9	69.9	54.8	49.3	—	50.1	76.5	76.6	NA	56.5	—	57.4
September 1998 .....	70.3	70.0	54.3	48.5	—	49.4	77.0	77.2	NA	56.0	—	56.8
October 1997 .....	85.3	85.7	69.8	64.5	—	65.4	94.1	94.3	73.9	70.4	—	71.7
<b>Ohio</b>												
October 1998 .....	62.3	61.9	55.0	47.1	44.3	49.9	71.4	70.9	61.8	50.4	—	56.2
September 1998 .....	60.8	60.5	54.2	46.4	43.0	49.1	70.2	69.7	60.6	49.4	—	55.2
October 1997 .....	75.8	75.5	66.7	60.7	58.4	63.1	83.8	83.5	72.8	63.7	—	68.9
<b>Oklahoma</b>												
October 1998 .....	58.2	58.0	48.8	46.4	43.0	45.3	64.5	64.4	55.2	48.8	—	53.5
September 1998 .....	57.1	57.0	48.8	45.9	43.2	44.7	62.9	62.9	55.2	47.7	—	52.6
October 1997 .....	71.3	71.4	64.1	60.7	57.4	59.6	77.5	77.3	69.9	63.7	—	67.2
<b>South Dakota</b>												
October 1998 .....	69.2	69.5	54.4	49.0	—	50.3	70.3	71.1	54.6	NA	—	54.0
September 1998 .....	69.2	69.5	54.9	48.8	—	50.4	71.5	72.0	56.8	NA	—	54.4
October 1997 .....	84.8	85.0	71.9	64.5	—	66.2	87.2	88.1	77.2	NA	—	70.7
<b>Tennessee</b>												
October 1998 .....	56.5	56.2	52.4	46.7	—	47.5	66.2	66.1	61.2	51.4	—	53.4
September 1998 .....	53.7	53.4	51.7	44.1	—	45.2	63.3	63.3	60.7	48.7	—	51.3
October 1997 .....	73.6	73.3	69.3	59.9	—	61.4	83.7	83.5	78.3	64.5	—	67.6
<b>Wisconsin</b>												
October 1998 .....	61.0	60.8	52.2	46.0	W	46.6	68.4	68.6	NA	51.2	—	52.0
September 1998 .....	61.0	61.0	53.0	46.0	W	46.7	68.6	68.7	NA	51.1	—	52.0
October 1997 .....	76.3	76.1	66.3	60.6	W	61.2	82.7	83.0	72.0	65.3	—	66.5
<b>PAD District III</b>												
October 1998 .....	57.6	57.2	51.6	45.8	41.6	45.1	67.7	67.1	57.3	50.2	—	52.4
September 1998 .....	56.1	55.9	50.4	43.0	39.0	42.5	66.6	66.0	55.8	46.9	—	49.6
October 1997 .....	75.7	75.0	67.4	60.5	56.7	59.9	85.1	84.3	73.4	63.7	—	66.5
<b>Alabama</b>												
October 1998 .....	59.5	59.1	52.5	46.6	—	48.3	68.0	67.2	57.9	51.3	—	53.9
September 1998 .....	58.5	58.1	51.5	43.5	—	46.0	67.0	66.3	56.9	48.2	—	52.1
October 1997 .....	78.1	77.6	66.5	59.2	—	61.3	86.8	86.0	72.8	63.9	—	67.1
<b>Arkansas</b>												
October 1998 .....	57.1	56.3	50.7	47.0	W	47.4	67.0	65.9	54.3	50.9	—	51.8
September 1998 .....	56.0	56.0	51.1	44.8	W	45.5	65.4	64.6	55.3	48.4	—	50.0
October 1997 .....	73.3	72.3	64.5	60.3	W	60.8	82.8	81.6	68.0	64.0	—	65.0
<b>Louisiana</b>												
October 1998 .....	57.2	56.6	54.5	45.3	40.3	46.1	68.8	68.1	60.3	49.7	—	53.5
September 1998 .....	57.2	56.4	53.4	42.1	38.8	42.9	68.3	67.5	59.4	46.1	—	50.3
October 1997 .....	75.6	75.0	71.4	58.2	55.7	60.0	85.8	84.9	76.7	62.7	—	67.8
<b>Mississippi</b>												
October 1998 .....	60.5	60.4	55.2	45.7	41.9	47.4	70.3	70.0	61.4	50.3	—	54.1
September 1998 .....	59.4	59.2	55.6	42.8	38.1	43.9	69.1	68.8	60.7	47.1	—	51.6
October 1997 .....	78.0	77.0	69.7	58.8	56.4	60.5	87.4	86.8	75.9	63.2	—	67.5
<b>New Mexico</b>												
October 1998 .....	63.4	63.0	52.7	49.0	—	49.7	72.4	72.0	60.1	53.8	—	54.8
September 1998 .....	64.0	63.6	52.0	46.6	—	47.5	73.9	73.6	57.4	51.1	—	52.0
October 1997 .....	84.0	83.7	74.3	71.5	—	71.9	92.0	91.7	81.3	76.0	—	76.6
<b>Texas</b>												
October 1998 .....	55.8	55.7	48.6	45.1	41.7	43.5	65.4	65.0	52.7	49.3	—	50.0
September 1998 .....	53.4	53.6	46.0	42.2	39.1	40.9	63.5	63.1	49.4	45.8	—	46.6
October 1997 .....	73.8	73.3	65.6	60.4	56.8	58.8	82.7	82.1	70.9	62.9	—	64.5
<b>PAD District IV</b>												
October 1998 .....	67.4	67.2	59.9	56.0	W	57.0	78.2	77.6	64.4	62.0	—	63.1
September 1998 .....	67.2	67.1	59.3	55.4	—	56.5	77.7	77.3	63.9	60.2	—	62.0
October 1997 .....	88.1	87.7	80.3	75.3	W	76.4	97.7	97.0	84.4	81.0	—	82.4
<b>Colorado</b>												
October 1998 .....	65.7	65.1	NA	49.1	W	50.2	79.7	79.0	NA	53.8	—	56.3
September 1998 .....	64.6	64.1	52.9	47.8	—	49.2	78.6	77.9	57.9	52.0	—	54.5
October 1997 .....	86.2	85.5	73.9	68.3	W	69.0	98.6	97.9	79.5	72.8	—	74.6

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Nebraska</b>												
October 1998 .....	74.0	73.6	NA	56.0	—	57.3	62.9	63.0	53.9	48.9	—	49.8
September 1998 .....	74.5	74.3	61.7	56.5	—	57.5	63.2	63.2	52.9	48.7	—	49.3
October 1997 .....	89.0	89.0	76.7	70.8	—	71.9	78.4	78.7	68.7	63.8	—	64.6
<b>North Dakota</b>												
October 1998 .....	76.0	75.1	64.5	58.1	—	59.7	70.7	70.7	56.0	50.1	—	51.1
September 1998 .....	76.1	75.5	64.0	57.6	—	59.2	71.2	71.0	55.6	49.4	—	50.4
October 1997 .....	91.5	91.1	79.7	72.9	—	75.0	86.4	86.8	71.0	65.1	—	66.2
<b>Ohio</b>												
October 1998 .....	79.3	78.5	68.2	57.1	—	62.2	65.9	65.4	58.0	48.8	44.3	52.3
September 1998 .....	78.2	77.4	67.4	56.5	—	61.4	64.4	64.0	57.2	48.1	43.0	51.5
October 1997 .....	90.9	90.3	79.2	70.1	W	74.3	78.9	78.5	69.5	62.2	59.0	65.2
<b>Oklahoma</b>												
October 1998 .....	70.6	70.1	56.7	53.8	47.5	53.1	60.8	60.5	50.2	47.6	43.3	46.3
September 1998 .....	69.3	68.8	56.2	53.1	47.3	52.5	59.6	59.4	50.0	47.1	43.3	45.5
October 1997 .....	83.4	83.1	71.2	68.0	62.5	67.5	73.5	73.5	65.4	61.7	57.6	60.5
<b>South Dakota</b>												
October 1998 .....	83.5	83.4	61.1	58.1	—	58.9	70.0	70.4	54.9	50.0	—	51.2
September 1998 .....	83.4	83.3	62.0	57.6	—	58.8	70.3	70.6	55.6	49.8	—	51.3
October 1997 .....	97.7	97.9	81.2	73.7	—	76.5	85.7	86.0	73.1	65.2	—	67.2
<b>Tennessee</b>												
October 1998 .....	75.7	75.2	67.0	56.7	—	58.2	62.1	61.8	56.8	49.5	—	50.6
September 1998 .....	72.8	72.4	65.0	54.2	—	55.7	59.1	58.9	55.9	46.9	—	48.2
October 1997 .....	91.8	91.3	85.1	69.9	—	72.6	78.6	78.3	74.0	62.4	—	64.5
<b>Wisconsin</b>												
October 1998 .....	74.1	73.7	62.2	56.0	—	56.7	62.9	62.8	53.5	47.3	W	47.9
September 1998 .....	75.5	75.1	62.9	56.2	—	56.9	63.1	63.1	54.4	47.3	W	48.0
October 1997 .....	87.6	87.1	76.6	69.2	—	70.1	77.8	77.6	67.8	61.6	W	62.3
<b>PAD District III</b>												
October 1998 .....	74.3	73.8	63.8	55.8	45.4	55.8	61.7	61.2	54.7	48.0	41.9	47.1
September 1998 .....	72.8	72.0	61.9	52.8	44.3	52.9	60.3	59.9	53.2	45.1	39.4	44.6
October 1997 .....	92.9	91.8	79.0	69.5	59.9	69.3	79.5	78.7	70.3	62.2	57.0	61.6
<b>Alabama</b>												
October 1998 .....	74.9	74.4	65.8	57.0	—	59.7	64.0	63.6	56.2	49.4	—	51.5
September 1998 .....	74.1	73.2	64.1	54.1	—	57.1	63.1	62.6	54.9	46.4	—	49.2
October 1997 .....	95.5	94.4	79.8	69.8	—	72.7	82.6	82.0	70.1	61.9	—	64.3
<b>Arkansas</b>												
October 1998 .....	75.1	73.0	61.2	56.7	W	56.0	60.8	59.6	53.0	49.0	W	49.5
September 1998 .....	73.3	71.8	62.1	54.4	W	54.4	59.5	59.0	53.6	46.8	W	47.7
October 1997 .....	90.5	88.2	74.1	69.6	W	69.6	76.6	75.1	66.7	62.1	W	62.7
<b>Louisiana</b>												
October 1998 .....	76.8	75.3	67.5	55.2	42.2	55.9	62.9	62.2	58.4	47.8	40.7	49.0
September 1998 .....	77.0	75.1	66.1	51.9	44.7	51.2	62.9	61.9	57.2	44.6	40.7	45.6
October 1997 .....	94.0	92.6	83.9	68.0	61.6	69.8	80.7	79.8	75.2	60.6	57.2	63.0
<b>Mississippi</b>												
October 1998 .....	76.0	75.4	67.5	55.9	W	58.0	65.1	64.9	58.2	48.2	42.1	50.0
September 1998 .....	75.1	74.4	64.6	53.0	W	54.6	64.0	63.7	57.8	45.3	38.4	46.3
October 1997 .....	96.4	93.9	81.6	68.9	W	71.6	82.4	81.3	72.4	61.1	56.5	62.9
<b>New Mexico</b>												
October 1998 .....	79.9	79.4	62.2	58.4	—	59.1	66.3	65.8	54.7	50.7	—	51.4
September 1998 .....	80.5	80.0	61.7	56.3	—	57.2	67.1	66.7	53.8	48.3	—	49.2
October 1997 .....	97.4	96.6	84.2	80.8	—	81.4	86.2	85.9	76.1	73.0	—	73.4
<b>Texas</b>												
October 1998 .....	72.2	72.2	58.7	54.7	45.9	52.8	59.4	59.1	50.6	46.8	41.9	44.7
September 1998 .....	69.7	69.1	56.0	51.3	43.4	50.2	57.1	57.0	47.9	43.8	39.3	42.1
October 1997 .....	90.5	90.1	74.9	69.0	59.2	66.0	77.2	76.5	67.5	61.7	57.0	59.7
<b>PAD District IV</b>												
October 1998 .....	85.5	83.7	68.9	66.3	W	67.1	72.0	71.3	62.4	58.3	W	59.5
September 1998 .....	85.4	83.6	68.4	65.4	—	66.5	71.8	71.1	61.8	57.6	—	58.9
October 1997 .....	104.9	103.2	89.3	86.0	W	86.8	91.9	91.2	82.5	77.6	W	78.8
<b>Colorado</b>												
October 1998 .....	87.0	84.7	NA	58.6	W	60.0	71.5	70.6	NA	51.2	W	52.7
September 1998 .....	85.8	83.5	62.0	57.2	—	58.8	70.3	69.4	55.6	49.8	—	51.6
October 1997 .....	105.6	103.6	83.6	77.9	W	78.7	91.0	90.1	76.5	70.1	W	71.0

See footnotes at end of table.



**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
October 1998 .....	71.3	71.4	64.5	61.3	—	62.3	78.9	78.8	69.4	66.2	—	67.2
September 1998 .....	72.0	72.2	64.7	61.3	—	62.5	80.1	80.1	69.6	65.9	—	67.6
October 1997 .....	90.6	90.8	84.0	81.6	—	82.5	97.7	97.4	88.8	86.1	—	87.2
<b>Montana</b>												
October 1998 .....	71.1	71.3	62.0	58.0	—	58.5	75.4	75.7	65.0	63.4	—	63.6
September 1998 .....	73.3	73.5	63.2	58.9	—	59.5	79.0	79.2	66.4	64.0	—	64.2
October 1997 .....	91.6	91.4	79.6	76.3	—	76.7	97.7	97.8	84.4	82.2	—	82.5
<b>Utah</b>												
October 1998 .....	66.5	65.8	60.8	59.5	—	60.0	75.1	74.6	65.9	65.3	—	65.7
September 1998 .....	66.3	65.5	59.3	58.5	—	58.8	74.4	74.1	65.6	64.8	—	65.3
October 1997 .....	87.8	87.1	80.6	79.8	—	80.0	95.7	94.9	84.6	85.3	—	84.9
<b>Wyoming</b>												
October 1998 .....	73.0	71.7	60.8	53.6	—	54.7	79.9	79.1	69.0	64.2	—	66.3
September 1998 .....	74.4	72.6	62.1	54.1	—	55.5	81.5	80.4	66.5	64.2	—	65.2
October 1997 .....	92.3	91.1	80.5	74.0	—	75.1	100.0	98.1	84.5	82.6	—	83.5
<b>PAD District V</b>												
October 1998 .....	69.8	68.4	61.0	53.6	NA	56.0	79.4	78.6	68.3	59.0	—	64.9
September 1998 .....	72.0	70.3	62.1	53.5	47.1	56.1	80.8	79.5	69.3	59.2	—	65.3
October 1997 .....	98.8	97.5	84.9	76.8	69.9	79.4	106.9	106.2	91.5	83.9	—	88.6
<b>Alaska</b>												
October 1998 .....	93.6	94.1	83.8	68.2	W	73.6	105.4	103.4	82.3	81.1	—	81.9
September 1998 .....	93.7	92.6	83.8	65.2	W	71.6	102.1	100.6	82.0	81.4	—	81.8
October 1997 .....	116.1	115.2	99.2	81.1	W	90.4	121.3	120.4	103.9	94.6	—	101.2
<b>Arizona</b>												
October 1998 .....	64.3	63.3	55.8	49.2	45.7	52.1	73.2	72.9	62.0	54.9	—	59.8
September 1998 .....	66.0	65.2	54.3	48.7	46.4	50.9	75.2	74.9	62.2	54.4	—	58.7
October 1997 .....	99.1	97.9	84.8	78.3	73.4	80.6	106.4	105.9	89.7	85.0	—	88.0
<b>California</b>												
October 1998 .....	—	—	—	51.2	NA	NA	—	—	—	56.1	—	56.1
September 1998 .....	—	—	—	50.6	47.1	47.5	—	—	—	55.4	—	55.4
October 1997 .....	—	—	—	78.4	70.8	71.6	—	—	—	83.9	—	83.9
<b>Hawaii</b>												
October 1998 .....	104.0	90.0	93.0	80.5	—	91.1	110.4	101.4	97.8	85.8	—	97.3
September 1998 .....	105.0	90.8	93.4	80.8	—	91.4	111.4	102.2	97.7	87.1	—	97.3
October 1997 .....	111.5	105.5	103.4	NA	—	101.2	118.5	113.8	108.1	W	—	107.8
<b>Nevada</b>												
October 1998 .....	NA	NA	NA	53.4	47.9	54.0	NA	NA	NA	56.7	—	61.8
September 1998 .....	71.5	65.2	56.6	53.0	47.8	53.6	79.5	74.7	63.8	57.3	—	61.4
October 1997 .....	95.1	94.6	84.4	81.5	NA	81.5	107.2	106.7	88.9	88.7	—	88.8
<b>Oregon</b>												
October 1998 .....	69.5	69.0	59.4	52.5	NA	54.2	80.4	79.2	66.1	59.2	—	62.7
September 1998 .....	70.4	69.9	59.9	52.3	48.0	54.0	80.8	79.8	67.5	59.3	—	63.4
October 1997 .....	98.5	96.4	82.7	76.4	66.9	77.7	108.4	106.9	90.8	84.2	—	87.4
<b>Washington</b>												
October 1998 .....	65.3	65.5	58.5	53.6	NA	55.7	77.4	77.3	65.0	59.6	—	63.1
September 1998 .....	68.1	68.0	60.4	53.9	46.2	56.4	78.8	78.7	66.8	60.3	—	64.2
October 1997 .....	94.7	94.1	82.4	74.2	65.9	78.2	104.0	103.6	88.9	82.7	—	86.7

See footnotes at end of table.

**Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Idaho</b>												
October 1998 .....	87.1	85.8	75.6	71.6	—	72.8	73.9	73.7	66.4	63.1	—	64.1
September 1998 .....	88.2	87.0	75.4	71.6	—	73.1	74.8	74.6	66.8	63.0	—	64.4
October 1997 .....	104.2	103.5	94.3	91.6	—	92.7	92.7	92.6	85.9	83.2	—	84.2
<b>Montana</b>												
October 1998 .....	84.1	83.9	73.4	70.0	—	70.5	73.5	73.5	64.2	60.4	—	60.9
September 1998 .....	86.1	86.0	73.2	70.5	—	70.9	75.9	75.8	65.1	61.2	—	61.8
October 1997 .....	102.3	102.1	91.3	88.4	—	88.6	93.5	93.3	81.5	79.0	—	79.3
<b>Utah</b>												
October 1998 .....	82.2	80.7	69.9	69.1	—	69.5	70.7	69.9	64.0	62.3	—	63.0
September 1998 .....	82.7	81.0	69.1	68.3	—	68.7	70.5	69.5	62.8	61.4	—	62.0
October 1997 .....	104.7	103.1	88.6	89.5	—	89.2	92.1	91.2	83.2	82.3	—	82.6
<b>Wyoming</b>												
October 1998 .....	85.4	84.1	71.1	63.9	—	65.2	75.9	74.4	63.5	55.7	—	56.9
September 1998 .....	87.7	86.1	NA	64.3	—	66.3	77.7	75.8	64.8	56.2	—	57.9
October 1997 .....	104.3	101.8	91.6	83.9	—	85.4	95.0	93.4	82.9	75.8	—	77.1
<b>PAD District V</b>												
October 1998 .....	90.6	88.3	77.0	66.5	NA	68.4	73.5	71.9	64.2	55.6	NA	58.6
September 1998 .....	91.6	89.4	77.6	66.3	51.2	69.0	75.7	73.9	65.3	55.6	47.9	58.7
October 1997 .....	117.2	115.0	99.8	88.9	73.8	92.8	101.8	100.5	87.7	78.7	70.4	81.9
<b>Alaska</b>												
October 1998 .....	110.5	110.4	94.0	79.2	—	85.6	96.3	96.6	84.8	69.5	W	75.0
September 1998 .....	109.4	109.2	92.6	75.7	—	82.1	95.9	94.9	84.6	66.4	W	72.8
October 1997 .....	128.1	127.5	107.1	94.6	—	100.9	117.9	117.1	99.8	82.4	W	91.3
<b>Arizona</b>												
October 1998 .....	84.6	84.3	68.5	61.3	W	64.3	67.5	66.4	58.0	51.0	46.9	54.2
September 1998 .....	85.9	85.3	67.6	61.0	53.4	62.9	69.8	69.0	56.7	50.7	47.4	53.0
October 1997 .....	115.7	114.6	96.2	86.9	NA	89.7	101.7	100.6	86.8	80.4	72.9	82.6
<b>California</b>												
October 1998 .....	—	—	—	63.8	W	NA	—	—	—	53.4	NA	NA
September 1998 .....	—	—	—	63.1	49.9	50.9	—	—	—	52.9	47.7	48.3
October 1997 .....	—	—	—	89.1	71.6	75.7	—	—	—	80.5	70.9	72.2
<b>Hawaii</b>												
October 1998 .....	119.1	105.8	104.6	91.4	—	103.2	108.4	94.8	96.8	83.2	—	95.1
September 1998 .....	121.2	107.0	104.8	92.9	—	103.4	109.7	95.8	97.2	84.0	—	95.4
October 1997 .....	128.2	120.0	115.1	NA	—	113.7	116.2	109.7	107.4	NA	—	105.5
<b>Nevada</b>												
October 1998 .....	NA	NA	NA	62.9	54.5	64.9	NA	NA	NA	54.8	48.8	56.0
September 1998 .....	86.7	82.0	70.5	62.5	54.2	64.8	75.1	68.8	60.1	54.6	48.6	55.9
October 1997 .....	112.1	111.0	96.8	89.3	W	90.6	98.5	97.8	86.7	82.8	NA	83.1
<b>Oregon</b>												
October 1998 .....	89.0	87.6	73.6	67.0	NA	NA	72.5	71.9	61.6	54.5	NA	56.2
September 1998 .....	89.5	88.3	74.1	67.2	NA	66.9	73.4	72.7	62.3	54.5	48.4	56.2
October 1997 .....	116.9	113.5	97.0	90.3	76.0	89.1	100.9	98.7	84.8	78.1	69.6	79.5
<b>Washington</b>												
October 1998 .....	86.9	86.5	73.0	66.9	NA	68.1	69.7	69.7	61.4	55.9	NA	58.3
September 1998 .....	88.5	87.9	74.3	67.2	NA	69.0	72.6	72.2	63.4	56.2	47.4	59.1
October 1997 .....	113.9	112.9	96.5	87.6	W	92.4	98.4	97.8	85.1	76.5	66.8	80.9

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, and PAD District**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	69.5	69.1	59.6	54.2	—	56.4	76.4	75.7	65.1	55.8	—	59.5
September 1998 .....	67.9	67.9	60.6	54.1	—	57.0	74.4	74.1	65.5	55.3	—	59.1
October 1997 .....	90.7	90.0	80.3	71.8	—	75.4	97.3	96.8	86.4	73.9	—	79.3
<b>PAD District I</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District II</b>												
October 1998 .....	69.5	69.3	59.8	53.8	—	55.7	74.0	73.6	NA	54.7	—	56.2
September 1998 .....	69.1	69.1	59.8	54.3	—	56.2	74.3	74.0	NA	55.1	—	57.0
October 1997 .....	88.4	87.9	72.8	67.8	—	69.5	93.4	93.0	78.6	68.8	—	71.7
<b>PAD District III</b>												
October 1998 .....	65.9	65.8	49.9	50.6	—	50.5	75.6	75.6	W	56.0	—	55.9
September 1998 .....	W	W	W	48.5	—	48.5	W	W	W	54.1	—	53.8
October 1997 .....	92.7	91.2	76.9	76.1	—	76.2	100.8	100.8	79.6	83.2	—	82.8
<b>PAD District IV</b>												
October 1998 .....	W	W	W	52.7	—	53.1	W	W	W	55.8	—	56.6
September 1998 .....	—	—	—	51.7	—	51.7	—	—	—	53.5	—	53.5
October 1997 .....	89.2	89.2	79.3	71.7	—	73.7	W	94.1	W	74.1	—	77.6
<b>PAD District V</b>												
October 1998 .....	69.8	68.8	59.9	57.5	—	59.1	82.6	80.6	68.0	63.7	—	67.0
September 1998 .....	W	NA	61.6	57.4	—	60.8	W	NA	68.8	63.8	—	68.0
October 1997 .....	NA	NA	86.9	81.7	—	85.1	NA	NA	92.4	88.5	—	91.2

See footnotes at end of table.

**Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, and PAD District**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	85.7	85.2	73.4	62.5	—	67.7	71.9	71.3	62.3	55.3	—	58.2
September 1998 .....	81.9	81.7	73.3	61.1	—	67.6	69.8	69.7	62.7	54.9	—	58.4
October 1997 .....	106.0	105.1	93.8	80.3	—	86.2	92.7	91.9	82.4	72.9	—	76.9
<b>PAD District I</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>PAD District II</b>												
October 1998 .....	81.3	81.0	NA	59.2	—	63.3	70.9	70.7	61.1	54.4	—	56.5
September 1998 .....	80.6	80.5	68.9	59.9	—	64.1	70.7	70.5	61.2	54.8	—	57.0
October 1997 .....	100.7	100.0	81.2	72.8	—	75.3	89.8	89.3	74.0	68.3	—	70.3
<b>PAD District III</b>												
October 1998 .....	84.2	84.2	59.1	60.3	—	60.2	70.4	70.3	51.3	52.4	—	52.3
September 1998 .....	W	W	W	57.3	—	57.4	W	W	W	50.5	—	50.4
October 1997 .....	109.0	106.7	86.3	85.3	—	85.4	96.5	95.0	77.9	77.9	—	77.9
<b>PAD District IV</b>												
October 1998 .....	W	W	W	61.5	—	62.2	W	63.6	W	54.5	—	55.1
September 1998 .....	—	—	—	58.7	—	58.7	—	—	—	53.0	—	53.0
October 1997 .....	102.8	102.7	89.7	79.7	—	82.6	91.2	91.1	81.6	73.2	—	75.6
<b>PAD District V</b>												
October 1998 .....	92.4	91.9	75.6	69.1	—	73.5	74.4	73.1	63.5	59.6	—	62.2
September 1998 .....	NA	NA	77.4	70.9	—	76.1	W	NA	64.5	59.9	—	63.7
October 1997 .....	NA	NA	100.5	97.0	—	99.5	NA	NA	89.2	83.8	—	87.3

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type,  
PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	63.1	62.7	59.0	50.1	47.0	53.5	73.1	72.7	65.2	54.2	NA	61.7
September 1998 .....	62.7	62.3	58.4	49.1	46.1	52.8	72.6	72.3	64.6	53.1	W	60.9
October 1997 .....	85.6	85.0	80.4	68.0	67.5	73.6	95.2	94.5	86.2	71.9	W	81.8
<b>PAD District I</b>												
October 1998 .....	60.2	59.9	56.9	48.9	45.0	51.7	70.1	69.6	63.1	53.1	—	59.6
September 1998 .....	59.0	58.6	55.7	47.2	43.4	50.2	69.3	68.7	62.1	51.4	—	58.1
October 1997 .....	83.1	82.3	76.4	66.2	61.4	70.2	92.0	90.9	82.1	70.4	—	78.0
<b>Subdistrict IA</b>												
October 1998 .....	61.3	60.8	56.5	49.2	44.9	51.5	71.4	70.6	63.7	53.0	—	59.2
September 1998 .....	59.4	58.9	54.9	47.6	44.6	50.8	70.0	69.2	62.1	51.4	—	57.5
October 1997 .....	85.2	84.3	76.3	67.3	62.6	70.6	94.0	92.9	84.0	71.3	—	78.3
<b>Connecticut</b>												
October 1998 .....	60.7	60.4	57.2	49.1	W	52.7	71.5	69.8	63.3	53.2	—	59.0
September 1998 .....	57.7	57.5	56.0	47.3	NA	51.8	69.1	67.4	61.8	51.6	—	57.4
October 1997 .....	83.6	83.2	74.0	67.7	W	69.8	92.5	90.2	81.0	72.0	—	77.2
<b>Maine</b>												
October 1998 .....	64.8	64.6	56.9	50.6	W	50.3	75.3	75.1	61.8	54.3	—	57.0
September 1998 .....	63.5	63.4	54.8	48.7	—	50.3	74.0	73.5	60.0	52.3	—	54.9
October 1997 .....	84.6	84.4	74.2	67.7	—	69.2	94.1	93.7	78.7	70.8	—	73.0
<b>Massachusetts</b>												
October 1998 .....	61.1	60.3	56.1	48.7	W	51.1	71.1	70.6	64.5	52.5	—	60.0
September 1998 .....	59.4	58.6	54.3	47.4	43.7	50.5	70.1	69.5	63.0	51.0	—	58.3
October 1997 .....	86.7	85.1	77.3	66.8	W	70.9	95.4	94.8	86.3	71.0	—	79.9
<b>New Hampshire</b>												
October 1998 .....	63.2	63.2	58.2	48.8	W	52.0	73.2	73.4	64.3	52.0	—	60.9
September 1998 .....	61.8	61.7	56.4	47.6	W	50.8	72.0	72.1	62.6	50.6	—	59.1
October 1997 .....	85.1	84.8	79.3	67.8	—	74.8	94.7	94.7	85.0	71.1	—	82.2
<b>Rhode Island</b>												
October 1998 .....	56.9	56.9	54.0	50.0	—	51.3	66.6	66.5	60.5	53.3	—	56.8
September 1998 .....	55.8	55.8	51.8	47.8	—	49.0	65.8	65.7	58.1	51.7	—	54.7
October 1997 .....	82.3	82.1	79.0	67.3	—	70.5	91.0	90.4	85.0	71.0	—	77.1
<b>Subdistrict IB</b>												
October 1998 .....	60.3	60.2	57.3	48.7	45.0	51.8	70.3	69.9	63.2	53.0	—	60.1
September 1998 .....	59.6	59.3	56.4	47.0	43.3	49.9	70.0	69.4	62.5	51.4	—	58.9
October 1997 .....	82.5	81.8	76.8	66.0	61.0	70.3	91.6	90.4	81.9	70.5	—	78.6
<b>Delaware</b>												
October 1998 .....	58.1	57.9	54.4	47.8	—	50.5	69.2	68.5	61.2	51.4	—	56.1
September 1998 .....	56.8	56.5	51.5	45.1	—	47.6	68.8	67.9	58.3	48.7	—	53.1
October 1997 .....	79.9	79.3	72.2	65.5	—	68.3	90.3	89.1	78.3	69.2	—	73.9
<b>District of Columbia</b>												
October 1998 .....	W	57.0	60.3	—	—	60.3	W	68.4	NA	—	—	NA
September 1998 .....	W	56.3	60.1	—	—	60.1	W	67.8	NA	—	—	NA
October 1997 .....	W	73.2	77.3	—	—	77.3	W	83.6	80.3	—	—	80.3
<b>Maryland</b>												
October 1998 .....	57.3	57.0	56.4	48.7	—	53.7	66.9	66.0	62.0	52.8	—	59.7
September 1998 .....	56.6	56.1	56.0	46.3	—	52.6	66.7	65.8	61.8	50.1	—	58.8
October 1997 .....	81.2	79.1	73.9	62.9	—	70.1	89.5	86.2	79.0	66.6	—	75.9
<b>New Jersey</b>												
October 1998 .....	62.0	62.3	58.1	48.8	45.0	50.4	72.9	73.1	63.5	54.1	—	60.0
September 1998 .....	61.2	61.4	57.0	47.4	43.3	48.2	72.3	72.5	62.7	52.7	—	58.7
October 1997 .....	84.3	84.2	79.1	66.8	60.9	69.2	94.5	93.5	85.0	73.0	—	80.9
<b>New York</b>												
October 1998 .....	64.1	63.7	60.4	48.9	45.7	54.5	73.5	72.7	67.0	51.7	—	63.6
September 1998 .....	63.1	62.7	59.7	47.2	44.1	53.2	73.1	72.1	66.1	50.2	—	62.2
October 1997 .....	84.0	83.1	79.5	66.7	62.0	73.0	92.5	91.6	85.0	70.3	—	81.7

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type,  
PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>United States</b>												
October 1998 .....	80.9	80.0	72.0	59.0	50.7	65.8	67.9	67.4	63.1	52.1	47.5	57.0
September 1998 .....	80.2	79.4	71.3	57.8	48.9	64.7	67.4	66.9	62.4	51.1	46.5	56.2
October 1997 .....	102.4	101.3	92.4	76.4	67.7	84.8	89.8	89.0	84.0	69.8	67.6	76.8
<b>PAD District I</b>												
October 1998 .....	78.0	77.0	69.8	57.6	50.2	63.8	65.5	65.0	61.4	51.2	45.9	55.5
September 1998 .....	77.3	76.4	68.9	56.2	48.9	62.8	64.4	63.9	60.4	49.6	44.2	54.1
October 1997 .....	99.5	98.0	89.2	75.1	66.0	82.0	87.6	86.6	80.7	68.4	62.6	73.9
<b>Subdistrict 1A</b>												
October 1998 .....	79.8	78.1	68.6	57.8	W	62.5	65.7	65.0	59.7	51.1	45.4	54.1
September 1998 .....	78.1	76.7	67.5	56.3	W	61.3	63.9	63.3	58.2	49.6	45.2	53.4
October 1997 .....	102.6	100.1	89.1	76.1	W	81.5	88.9	87.8	79.6	69.1	63.2	73.2
<b>Connecticut</b>												
October 1998 .....	80.4	79.3	69.7	58.9	W	62.2	65.7	65.2	60.3	51.3	W	55.4
September 1998 .....	77.6	76.9	69.3	57.1	W	61.6	62.8	62.4	59.0	49.6	W	54.4
October 1997 .....	102.2	100.9	87.8	77.4	W	79.9	87.8	87.0	77.3	69.8	63.9	72.4
<b>Maine</b>												
October 1998 .....	84.1	83.1	67.2	58.6	—	60.9	68.4	68.1	58.8	52.0	W	52.0
September 1998 .....	82.7	81.2	65.9	57.0	—	59.3	67.2	66.9	56.9	50.2	—	52.0
October 1997 .....	102.2	101.1	84.6	76.1	—	78.1	87.5	87.2	75.9	69.0	—	70.7
<b>Massachusetts</b>												
October 1998 .....	78.9	76.5	68.1	56.7	—	62.9	65.5	64.5	59.5	50.6	W	53.9
September 1998 .....	77.8	75.8	66.9	55.6	W	61.4	64.0	63.1	57.9	49.4	43.9	53.4
October 1997 .....	103.2	99.3	89.6	75.4	W	82.7	90.3	88.6	80.8	68.7	W	73.8
<b>New Hampshire</b>												
October 1998 .....	82.5	82.4	70.8	56.0	—	65.4	67.1	67.1	61.1	50.2	W	54.4
September 1998 .....	80.7	80.5	68.4	55.2	—	63.1	65.8	65.7	59.2	49.0	W	53.1
October 1997 .....	103.0	102.9	90.8	76.1	—	85.9	88.5	88.2	81.9	69.1	—	77.2
<b>Rhode Island</b>												
October 1998 .....	74.9	74.6	67.1	58.8	—	61.8	61.1	61.0	57.6	51.9	—	53.9
September 1998 .....	74.1	73.8	64.8	57.2	—	59.8	60.1	60.1	55.3	49.9	—	51.7
October 1997 .....	98.1	97.5	91.9	75.6	—	80.9	85.8	85.6	82.4	69.0	—	73.1
<b>Subdistrict 1B</b>												
October 1998 .....	78.2	77.4	70.5	57.1	50.0	64.3	66.3	65.9	62.4	51.1	46.1	56.2
September 1998 .....	78.0	77.2	69.6	56.0	49.0	63.6	65.8	65.3	61.6	49.6	44.1	54.4
October 1997 .....	99.2	97.9	89.8	74.8	65.9	82.4	87.7	86.7	81.6	68.4	62.4	74.6
<b>Delaware</b>												
October 1998 .....	77.7	76.9	68.3	56.9	—	61.7	62.9	62.6	57.9	49.8	—	53.2
September 1998 .....	77.3	76.6	65.6	54.4	—	59.0	62.0	61.4	55.0	47.2	—	50.4
October 1997 .....	98.9	97.4	86.2	75.0	—	80.1	84.2	83.4	75.6	67.5	—	71.1
<b>District of Columbia</b>												
October 1998 .....	W	72.2	NA	—	—	NA	W	62.7	NA	—	—	NA
September 1998 .....	W	72.5	NA	—	—	NA	W	62.2	65.0	—	—	65.0
October 1997 .....	W	87.8	86.8	—	—	86.8	W	78.4	82.0	—	—	82.0
<b>Maryland</b>												
October 1998 .....	71.9	70.7	66.9	57.7	—	64.4	61.7	61.2	60.1	51.1	—	57.3
September 1998 .....	71.3	70.3	66.1	55.2	W	62.7	61.1	60.5	59.7	48.7	W	56.2
October 1997 .....	94.9	92.4	84.0	72.0	W	80.7	85.0	82.6	77.3	65.1	W	73.5
<b>New Jersey</b>												
October 1998 .....	81.3	81.3	71.4	57.3	50.1	63.5	68.4	68.5	62.9	51.4	45.7	54.2
September 1998 .....	80.8	80.6	70.6	56.6	49.0	62.2	67.7	67.7	62.0	50.1	43.9	52.0
October 1997 .....	102.9	102.4	93.1	76.1	66.0	82.5	89.9	89.6	84.0	69.6	61.9	73.4
<b>New York</b>												
October 1998 .....	78.9	77.9	73.3	56.2	49.9	65.5	70.3	69.7	66.9	51.2	48.3	59.9
September 1998 .....	79.0	78.1	72.5	55.3	49.6	66.4	69.7	69.0	66.2	49.9	46.4	59.3
October 1997 .....	97.9	96.6	91.7	73.9	65.9	82.9	89.4	88.2	85.3	68.9	64.8	77.8

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type,  
PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Pennsylvania</b>												
October 1998 .....	56.4	56.3	52.7	48.2	W	50.8	67.0	66.8	57.9	52.5	—	55.9
September 1998 .....	56.0	55.8	51.5	47.0	W	49.7	66.7	66.4	56.7	51.9	—	54.9
October 1997 .....	79.3	78.7	73.2	66.8	—	70.8	88.8	88.2	77.0	71.1	—	74.9
<b>Subdistrict IC</b>												
October 1998 .....	57.0	56.9	55.8	48.9	—	51.9	67.0	66.8	61.2	53.8	—	58.0
September 1998 .....	56.0	55.8	54.5	46.7	—	49.9	65.9	65.5	60.1	51.4	—	56.2
October 1997 .....	79.6	78.9	73.8	63.3	—	67.9	89.0	88.2	79.1	67.9	—	74.5
<b>Virginia</b>												
October 1998 .....	57.0	56.9	55.8	48.9	—	51.9	67.0	66.8	61.2	53.8	—	58.0
September 1998 .....	56.0	55.8	54.5	46.7	—	49.9	65.9	65.5	60.1	51.4	—	56.2
October 1997 .....	79.6	78.9	73.8	63.3	—	67.9	89.0	88.2	79.1	67.9	—	74.5
<b>PAD District II</b>												
October 1998 .....	65.7	65.4	58.5	52.5	W	55.4	74.8	74.4	64.8	56.0	—	62.0
September 1998 .....	65.1	65.0	58.2	52.7	—	55.4	74.8	74.4	64.4	55.8	—	61.5
October 1997 .....	79.0	78.8	72.0	65.6	—	69.0	88.6	88.0	78.5	69.3	—	76.0
<b>Illinois</b>												
October 1998 .....	67.2	67.0	60.1	52.6	W	56.8	76.2	75.7	65.7	56.3	—	63.8
September 1998 .....	67.3	67.1	60.2	53.3	—	57.4	77.0	76.2	65.6	56.9	—	63.9
October 1997 .....	80.0	79.7	72.9	65.7	—	70.3	89.7	88.9	79.1	68.8	—	77.4
<b>Indiana</b>												
October 1998 .....	61.0	61.2	57.7	52.9	—	54.7	70.4	70.3	61.7	56.6	—	58.4
September 1998 .....	59.2	59.5	56.0	53.4	—	54.4	69.6	69.4	60.5	57.1	—	58.3
October 1997 .....	75.3	75.8	72.2	66.7	—	68.7	84.1	83.7	77.4	70.6	—	73.5
<b>Kentucky</b>												
October 1998 .....	62.1	61.8	56.1	50.9	—	53.4	72.3	72.3	61.5	54.2	—	57.5
September 1998 .....	60.0	59.8	54.3	48.8	—	51.3	70.5	70.4	59.2	51.7	—	55.1
October 1997 .....	78.5	78.0	70.8	64.5	—	67.6	88.2	88.0	77.5	69.3	—	73.8
<b>Wisconsin</b>												
October 1998 .....	65.5	65.1	55.9	53.0	—	54.1	73.0	73.0	62.3	56.9	—	59.7
September 1998 .....	64.4	64.7	55.8	53.8	—	54.5	72.7	73.1	61.7	57.5	—	59.6
October 1997 .....	77.0	76.9	70.0	65.8	—	67.4	85.1	85.2	75.4	69.5	—	72.7
<b>PAD District III</b>												
October 1998 .....	56.2	56.2	54.8	47.2	44.3	48.2	67.5	67.4	60.5	51.3	—	54.1
September 1998 .....	54.6	54.5	52.5	44.8	42.1	45.8	66.4	66.3	59.0	48.9	—	52.3
October 1997 .....	74.5	74.4	70.0	60.7	58.1	62.1	85.4	85.2	76.4	64.7	—	68.7
<b>Texas</b>												
October 1998 .....	56.2	56.2	54.8	47.2	44.6	48.3	67.5	67.4	60.5	51.3	—	54.1
September 1998 .....	54.6	54.5	52.5	44.8	42.2	45.8	66.4	66.3	59.0	48.9	—	52.3
October 1997 .....	74.5	74.4	70.0	60.7	58.1	62.1	85.4	85.2	76.4	64.7	—	68.7
<b>PAD District V</b>												
October 1998 .....	67.3	66.5	61.6	53.3	NA	56.7	77.0	76.7	67.6	58.6	NA	65.9
September 1998 .....	67.6	66.8	61.6	53.7	50.3	57.4	76.6	76.4	67.5	58.9	W	65.8
October 1997 .....	94.3	93.0	88.0	78.8	73.9	82.6	104.5	103.7	93.5	84.8	W	92.0
<b>Arizona</b>												
October 1998 .....	67.5	67.0	NA	52.0	—	NA	77.3	77.2	NA	58.0	—	NA
September 1998 .....	66.9	66.4	57.5	49.5	W	55.7	76.9	76.9	63.6	57.4	—	63.2
October 1997 .....	96.5	96.1	88.8	80.6	—	87.0	106.1	106.1	94.6	87.8	—	93.7
<b>California</b>												
October 1998 .....	67.3	66.4	61.6	53.3	NA	56.6	76.9	76.6	67.6	58.6	NA	65.9
September 1998 .....	67.7	66.9	61.9	53.8	50.3	57.5	76.6	76.3	67.6	58.9	W	65.8
October 1997 .....	94.0	92.6	87.9	78.8	73.9	82.5	104.4	103.4	93.5	84.7	W	91.9

See footnotes at end of table.

**Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average	Through Retail Outlets	Average <sup>a</sup>	DTW	Rack	Bulk	Average
<b>Pennsylvania</b>												
October 1998 .....	74.4	73.6	64.6	58.8	W	62.7	62.1	61.7	56.3	50.8	W	54.1
September 1998 .....	74.2	73.4	63.4	57.5	—	61.5	61.7	61.3	55.2	49.7	W	53.0
October 1997 .....	96.3	95.1	84.9	76.6	—	82.4	84.2	83.4	76.5	69.1	—	73.8
<b>Subdistrict IC</b>												
October 1998 .....	74.4	73.4	66.7	59.3	W	63.3	62.4	62.2	59.9	51.8	W	55.7
September 1998 .....	73.0	72.5	65.6	56.6	W	61.2	61.2	60.9	58.8	49.4	W	53.7
October 1997 .....	95.7	94.6	84.9	73.7	—	80.1	84.2	83.4	77.7	65.9	—	71.7
<b>Virginia</b>												
October 1998 .....	74.4	73.4	66.7	59.3	W	63.3	62.4	62.2	59.9	51.8	W	55.7
September 1998 .....	73.0	72.5	65.6	56.6	W	61.2	61.2	60.9	58.8	49.4	W	53.7
October 1997 .....	95.7	94.6	84.9	73.7	—	80.1	84.2	83.4	77.7	65.9	—	71.7
<b>PAD District II</b>												
October 1998 .....	83.0	82.2	70.9	62.0	W	67.2	69.7	69.4	62.1	54.3	W	58.4
September 1998 .....	83.0	82.1	70.3	62.3	—	67.2	69.2	69.0	61.7	54.5	—	58.4
October 1997 .....	95.3	94.5	83.7	74.3	—	80.2	82.9	82.5	75.4	67.3	—	71.9
<b>Illinois</b>												
October 1998 .....	84.2	83.3	72.1	62.0	W	68.8	71.4	71.1	63.9	54.5	W	60.4
September 1998 .....	84.8	83.7	71.9	63.1	—	69.3	71.6	71.3	63.9	55.4	—	60.9
October 1997 .....	96.0	95.1	84.6	74.3	—	81.8	84.1	83.7	76.6	67.4	—	73.7
<b>Indiana</b>												
October 1998 .....	78.7	77.9	69.3	62.9	—	65.8	64.9	64.9	60.4	54.9	—	57.1
September 1998 .....	77.8	76.5	67.8	63.4	—	65.5	63.3	63.3	58.9	55.4	—	56.9
October 1997 .....	90.4	89.6	82.6	76.3	—	78.9	78.8	78.9	74.8	68.7	—	71.0
<b>Kentucky</b>												
October 1998 .....	81.9	81.7	68.0	60.4	—	64.1	66.6	66.3	58.7	52.9	—	55.7
September 1998 .....	80.1	79.7	66.7	58.2	—	62.4	64.7	64.4	57.3	50.8	—	53.8
October 1997 .....	97.7	97.3	83.5	73.7	—	78.8	82.7	82.1	73.9	66.5	—	70.2
<b>Wisconsin</b>												
October 1998 .....	78.2	78.2	66.4	62.6	—	64.3	67.7	67.2	58.0	54.3	—	55.7
September 1998 .....	77.6	77.6	66.1	63.6	—	64.7	66.7	66.8	57.9	55.2	—	56.2
October 1997 .....	89.7	89.1	77.7	73.7	—	75.4	79.2	78.9	71.5	66.9	—	68.8
<b>PAD District III</b>												
October 1998 .....	75.3	75.1	67.2	57.1	47.8	58.0	61.5	61.4	58.3	49.6	45.1	50.8
September 1998 .....	73.6	73.2	65.1	54.2	44.1	53.6	60.0	59.9	56.3	47.1	42.7	48.2
October 1997 .....	92.8	92.5	82.4	70.4	61.6	72.5	79.4	79.2	73.8	62.8	58.7	64.7
<b>Texas</b>												
October 1998 .....	75.3	75.1	67.2	57.1	47.8	58.0	61.5	61.4	58.3	49.6	45.4	50.9
September 1998 .....	73.6	73.2	65.1	54.2	44.6	54.3	60.0	59.9	56.3	47.1	42.9	48.3
October 1997 .....	92.8	92.5	82.4	70.4	63.0	73.4	79.4	79.2	73.8	62.8	58.5	64.8
<b>PAD District V</b>												
October 1998 .....	86.1	85.2	76.4	64.4	52.9	72.1	71.9	71.1	65.6	55.3	NA	60.3
September 1998 .....	85.5	84.7	76.1	64.8	54.7	72.1	71.9	71.1	65.5	55.6	50.8	60.9
October 1997 .....	113.8	112.5	102.5	90.8	75.8	97.8	98.6	97.2	91.5	80.8	74.1	86.0
<b>Arizona</b>												
October 1998 .....	87.2	86.9	NA	64.6	—	NA	72.0	71.5	NA	54.0	—	NA
September 1998 .....	87.0	86.8	71.5	62.7	—	70.5	71.0	70.5	60.7	51.3	W	58.8
October 1997 .....	115.6	115.5	101.8	93.8	—	100.2	100.2	99.7	91.8	83.3	—	90.0
<b>California</b>												
October 1998 .....	86.0	85.0	76.5	64.4	52.9	72.1	71.9	71.0	65.6	55.3	NA	60.3
September 1998 .....	85.3	84.5	76.3	64.9	54.7	72.1	72.1	71.2	65.7	55.7	50.8	61.0
October 1997 .....	113.6	112.2	102.5	90.6	75.8	97.7	98.4	96.9	91.4	80.7	74.1	85.9

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.



**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
United States												
October 1998 .....	62.4	50.7	49.5	72.1	53.2	57.1	80.4	59.1	61.6	66.9	52.0	52.4
September 1998 .....	61.5	48.1	48.1	71.4	51.3	55.6	79.4	55.2	59.9	66.0	49.5	50.9
October 1997 .....	80.8	67.0	65.7	90.5	77.0	74.2	98.4	77.0	77.8	84.9	69.4	68.5
PAD District I												
October 1998 .....	57.8	47.8	49.2	68.3	50.9	55.5	76.6	55.7	61.1	63.5	49.4	52.7
September 1998 .....	55.8	43.4	46.8	66.4	46.6	53.3	74.8	51.6	59.3	61.6	45.1	50.3
October 1997 .....	77.0	62.0	64.9	87.2	65.5	71.6	95.9	72.9	77.6	82.3	64.2	68.4
Subdistrict IA												
October 1998 .....	64.3	50.5	52.2	75.4	W	59.8	83.7	W	63.8	70.3	50.7	55.2
September 1998 .....	63.1	47.0	50.5	74.2	W	57.6	82.8	W	61.9	69.3	47.4	53.5
October 1997 .....	89.0	67.7	70.7	99.2	W	78.9	107.1	—	82.2	94.2	67.9	73.6
Connecticut												
October 1998 .....	W	W	52.3	W	W	59.7	W	W	62.0	W	W	55.4
September 1998 .....	W	W	50.4	W	W	57.3	W	W	60.7	W	W	53.6
October 1997 .....	W	W	69.4	W	W	78.1	W	—	79.8	W	W	72.4
Maine												
October 1998 .....	—	—	49.0	—	—	55.0	—	—	60.2	—	—	50.7
September 1998 .....	—	—	48.3	—	—	52.4	—	—	57.5	—	—	50.0
October 1997 .....	—	—	65.7	—	—	69.7	—	—	75.1	—	—	67.3
Massachusetts												
October 1998 .....	65.1	51.7	53.3	76.0	W	61.3	84.4	—	66.0	71.1	51.9	56.6
September 1998 .....	63.8	47.9	51.4	74.7	W	59.6	83.3	—	64.2	69.9	48.2	54.8
October 1997 .....	90.8	70.5	72.9	100.4	—	81.8	108.4	—	85.5	95.8	70.5	76.1
New Hampshire												
October 1998 .....	64.9	—	55.0	75.9	—	61.4	84.2	—	66.8	70.3	—	57.7
September 1998 .....	63.5	W	52.5	74.5	—	60.1	83.0	—	65.2	69.0	W	55.2
October 1997 .....	86.7	—	77.6	97.4	—	83.7	104.6	—	90.7	91.5	—	80.5
Rhode Island												
October 1998 .....	59.9	W	51.6	69.3	—	57.5	W	—	62.7	65.2	W	54.3
September 1998 .....	59.5	W	49.0	68.8	—	54.8	W	—	60.1	64.9	W	51.8
October 1997 .....	84.9	W	70.5	93.0	—	77.1	W	—	81.2	89.2	W	73.2
Vermont												
October 1998 .....	—	—	52.3	—	—	58.0	—	—	63.0	—	—	54.6
September 1998 .....	—	—	49.9	—	—	55.6	—	—	60.8	—	—	52.3
October 1997 .....	—	—	70.4	—	—	76.6	—	—	81.4	—	—	72.7
Subdistrict IB												
October 1998 .....	59.4	49.3	50.3	69.6	52.1	58.4	79.1	57.2	63.0	65.1	50.5	54.2
September 1998 .....	58.3	45.9	48.0	69.1	48.5	56.8	78.6	54.7	61.9	64.3	47.4	52.1
October 1997 .....	81.1	67.1	67.2	90.9	70.6	76.2	100.1	78.5	80.9	86.2	69.8	71.2
Delaware												
October 1998 .....	62.7	53.3	50.5	77.1	W	55.8	86.4	W	61.9	70.0	53.9	53.2
September 1998 .....	61.8	48.9	47.2	77.6	W	52.3	87.8	W	58.7	69.7	49.5	49.9
October 1997 .....	82.3	W	68.2	93.4	W	73.5	W	W	80.0	88.4	W	70.9
District of Columbia												
October 1998 .....	—	48.1	60.4	—	W	NA	—	W	NA	—	50.1	NA
September 1998 .....	—	43.7	60.2	—	W	NA	—	W	NA	—	45.8	65.1
October 1997 .....	—	61.8	77.4	—	W	80.3	—	W	86.9	—	63.5	82.0
Maryland												
October 1998 .....	—	48.3	52.8	—	W	58.8	—	56.2	63.8	—	49.9	56.4
September 1998 .....	—	W	51.5	—	W	57.9	—	52.0	62.1	—	W	55.2
October 1997 .....	W	62.7	69.0	W	64.7	75.0	W	69.9	80.1	W	63.9	72.5
New Jersey												
October 1998 .....	63.4	W	50.3	74.8	W	60.6	83.5	W	63.5	70.6	W	54.4
September 1998 .....	62.9	44.4	47.4	74.7	W	59.3	83.3	W	62.0	70.2	46.6	51.4
October 1997 .....	85.6	67.6	67.2	96.3	72.5	81.3	105.0	83.0	82.6	92.0	72.2	71.7
New York												
October 1998 .....	58.4	W	51.6	69.2	54.2	61.1	78.0	60.8	64.8	63.8	52.3	56.3
September 1998 .....	57.0	W	49.7	68.5	52.2	59.4	77.3	60.6	64.9	62.6	49.9	54.9
October 1997 .....	80.0	69.8	68.9	90.1	73.4	79.5	98.1	77.7	82.0	84.7	72.5	73.5
Pennsylvania												
October 1998 .....	57.9	47.4	47.9	67.1	53.8	53.6	75.8	57.2	58.4	62.8	48.5	50.4
September 1998 .....	56.8	45.6	45.8	66.4	W	51.1	75.0	W	56.5	61.8	46.4	48.3
October 1997 .....	79.6	68.5	64.5	88.5	74.8	70.0	97.2	82.0	76.2	84.0	69.9	67.1

See footnotes at end of table.

**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
Subdistrict IC												
October 1998 .....	56.5	47.3	47.4	67.1	50.6	52.9	74.7	55.4	58.8	62.2	49.0	50.7
September 1998 .....	53.8	42.5	44.6	64.6	46.2	50.2	72.0	50.9	56.2	59.5	44.4	48.0
October 1997 .....	73.8	60.1	61.1	84.5	63.8	67.2	92.5	69.9	73.2	79.1	62.0	64.4
Florida												
October 1998 .....	57.2	47.0	47.9	68.6	50.7	54.1	75.0	54.6	60.4	63.4	48.5	52.0
September 1998 .....	54.3	42.3	44.9	65.9	46.1	51.2	72.3	50.5	57.8	60.7	44.1	49.1
October 1997 .....	74.7	59.9	62.4	86.4	63.7	69.5	93.7	72.7	76.2	80.7	62.1	66.8
Georgia												
October 1998 .....	55.0	46.8	46.7	65.2	50.1	52.5	74.0	55.1	57.6	60.7	49.2	49.7
September 1998 .....	51.9	42.0	44.0	62.3	45.3	49.4	70.7	50.3	54.9	57.6	44.3	46.9
October 1997 .....	69.6	59.5	59.3	79.6	62.9	65.3	88.8	68.2	70.7	74.7	61.6	62.2
North Carolina												
October 1998 .....	55.4	47.3	46.6	65.1	49.3	51.2	73.5	55.3	57.0	60.5	48.5	49.4
September 1998 .....	52.5	42.0	43.7	62.0	46.3	48.3	70.0	50.7	54.3	57.5	43.4	46.6
October 1997 .....	72.8	59.7	59.8	83.1	W	64.5	90.6	67.7	70.2	77.6	60.9	62.4
South Carolina												
October 1998 .....	53.6	47.2	46.7	63.4	W	51.7	72.2	W	57.1	58.4	49.0	49.4
September 1998 .....	50.3	42.2	43.8	60.6	W	48.7	69.4	51.2	54.4	55.3	44.5	46.5
October 1997 .....	69.8	59.8	59.6	79.7	W	64.8	88.5	68.7	70.5	74.1	61.7	62.1
Virginia												
October 1998 .....	59.2	48.2	48.5	69.6	W	53.7	76.1	W	59.8	64.6	50.3	51.8
September 1998 .....	57.8	44.3	46.1	68.8	W	51.7	74.8	W	57.6	63.4	46.2	49.5
October 1997 .....	78.9	61.3	63.1	89.3	W	69.1	95.1	69.8	74.7	83.8	63.2	66.5
West Virginia												
October 1998 .....	56.8	51.7	49.4	66.5	W	54.8	75.6	W	60.4	60.5	53.2	52.2
September 1998 .....	55.2	49.1	47.1	64.8	W	53.1	74.0	W	58.2	58.9	50.7	49.7
October 1997 .....	79.2	64.6	61.8	88.8	W	67.4	97.9	W	72.6	82.9	66.9	64.1
PAD District II												
October 1998 .....	62.8	53.4	48.1	71.5	56.4	54.7	79.7	60.8	59.0	66.3	54.5	50.1
September 1998 .....	61.7	51.4	47.3	71.0	W	53.9	79.0	60.0	58.1	65.2	52.8	49.4
October 1997 .....	76.2	67.4	61.9	85.0	70.5	68.6	92.0	77.5	72.4	79.4	68.7	63.8
Illinois												
October 1998 .....	66.5	NA	49.9	74.5	NA	59.5	83.2	W	64.0	70.6	NA	53.2
September 1998 .....	66.0	NA	49.2	76.1	NA	59.9	84.0	NA	64.9	70.4	NA	52.7
October 1997 .....	78.7	65.0	63.4	88.3	W	75.4	94.3	W	78.0	82.6	67.0	66.5
Indiana												
October 1998 .....	60.4	48.9	47.4	67.9	—	52.8	76.0	W	59.1	63.7	49.0	49.7
September 1998 .....	60.3	46.9	46.7	69.5	W	52.2	77.5	W	57.8	63.9	47.2	49.0
October 1997 .....	74.6	65.7	61.5	81.8	W	66.6	86.0	W	72.4	77.3	65.7	63.5
Iowa												
October 1998 .....	57.6	W	47.9	W	—	53.7	66.8	NA	57.5	58.7	W	49.1
September 1998 .....	57.7	W	47.6	W	—	53.7	67.5	NA	57.1	58.8	W	48.9
October 1997 .....	78.1	W	62.5	85.5	—	67.9	87.2	W	70.3	79.0	W	63.5
Kansas												
October 1998 .....	58.9	51.8	46.1	67.9	W	NA	74.9	52.9	54.1	61.4	51.9	46.9
September 1998 .....	57.7	49.4	45.9	66.6	W	52.7	73.7	W	52.8	60.2	49.6	46.7
October 1997 .....	74.2	66.4	60.8	83.0	—	69.0	90.0	W	67.6	76.4	66.4	61.5
Kentucky												
October 1998 .....	65.1	51.7	48.2	75.3	W	53.0	84.6	56.7	58.7	69.4	52.3	50.5
September 1998 .....	62.9	48.5	46.2	72.9	W	50.9	82.2	51.6	56.4	67.1	49.2	48.5
October 1997 .....	78.7	63.6	61.5	87.7	W	66.9	96.4	70.7	71.2	82.5	64.7	63.7
Michigan												
October 1998 .....	59.0	56.1	48.0	66.5	W	54.0	75.3	NA	59.9	61.5	NA	50.2
September 1998 .....	58.8	53.6	48.1	67.1	W	53.5	75.4	NA	59.6	61.4	NA	50.3
October 1997 .....	73.3	70.4	61.6	81.1	66.3	67.3	88.5	W	73.0	75.6	72.3	63.6
Minnesota												
October 1998 .....	72.9	57.2	52.2	79.2	—	55.5	86.4	—	60.3	75.0	57.2	53.4
September 1998 .....	71.6	56.3	52.5	78.0	—	56.1	84.5	—	60.1	73.7	56.3	53.8
October 1997 .....	88.0	68.8	65.8	94.4	W	70.4	101.3	W	73.0	89.8	68.9	66.8
Missouri												
October 1998 .....	58.4	NA	46.6	67.5	W	52.6	77.7	W	55.8	62.0	NA	48.0
September 1998 .....	57.8	NA	46.3	67.1	W	53.0	77.5	W	55.8	61.4	NA	47.9
October 1997 .....	72.3	65.7	61.6	81.9	W	68.6	91.7	72.0	70.8	75.6	66.5	63.0

See footnotes at end of table.

**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
Nebraska												
October 1998 .....	58.0	W	47.7	W	—	53.7	W	—	56.3	59.5	W	48.6
September 1998 .....	55.6	W	47.2	W	—	53.5	W	—	55.8	57.1	W	48.2
October 1997 .....	71.2	W	62.8	79.1	—	67.6	W	—	71.5	72.2	W	63.6
North Dakota												
October 1998 .....	W	W	49.3	W	—	NA	W	—	58.8	W	W	50.2
September 1998 .....	W	NA	48.5	W	—	NA	W	—	58.4	W	NA	49.5
October 1997 .....	W	W	64.6	—	—	W	W	—	73.9	W	W	65.3
Ohio												
October 1998 .....	64.8	W	49.3	74.0	W	55.8	83.6	61.5	61.6	68.5	W	51.7
September 1998 .....	62.7	W	48.4	72.1	W	54.5	81.4	61.7	60.8	66.4	W	50.8
October 1997 .....	76.7	67.3	62.4	85.4	W	68.6	93.6	77.6	73.6	80.0	68.8	64.6
Oklahoma												
October 1998 .....	56.2	50.8	44.8	62.7	W	49.2	69.4	W	52.3	59.0	51.4	45.7
September 1998 .....	55.4	47.1	44.0	62.8	—	48.0	70.7	W	51.7	58.6	47.8	44.9
October 1997 .....	69.5	73.3	59.0	77.3	W	63.9	85.3	W	66.6	72.4	73.1	59.8
South Dakota												
October 1998 .....	57.6	47.4	49.1	W	—	55.2	73.1	—	58.5	61.5	47.4	50.0
September 1998 .....	59.7	W	48.9	W	—	55.2	73.3	—	57.9	63.7	W	49.9
October 1997 .....	87.7	62.7	64.5	W	—	71.4	93.4	W	W	87.9	63.5	65.3
Tennessee												
October 1998 .....	58.7	48.7	46.5	67.9	W	51.5	77.3	54.3	56.8	64.3	49.4	49.4
September 1998 .....	55.9	46.4	43.8	65.3	W	48.8	74.9	51.0	54.4	61.6	47.0	46.7
October 1997 .....	74.6	62.2	59.8	85.2	64.6	64.9	93.0	66.5	70.5	80.2	63.1	62.6
Wisconsin												
October 1998 .....	63.9	46.6	47.9	72.0	—	54.7	77.6	W	58.4	66.2	47.1	49.4
September 1998 .....	62.8	48.4	47.9	72.1	W	54.6	77.3	W	58.4	65.2	49.2	49.4
October 1997 .....	75.5	60.5	61.9	83.4	W	68.2	89.5	W	71.0	77.6	60.7	63.3
PAD District III												
October 1998 .....	57.7	44.4	44.9	68.9	48.1	51.5	76.6	54.2	55.1	62.9	45.7	46.9
September 1998 .....	56.1	NA	42.3	67.6	44.6	48.6	75.0	NA	51.8	61.3	43.5	44.4
October 1997 .....	75.3	58.8	59.2	86.1	61.8	65.7	93.8	70.7	68.7	79.9	59.9	61.1
Alabama												
October 1998 .....	58.5	46.3	46.7	68.2	49.5	51.6	77.3	55.3	57.4	63.6	48.5	49.6
September 1998 .....	57.1	41.8	43.7	67.1	44.4	48.8	75.9	52.4	54.6	62.3	44.5	46.7
October 1997 .....	75.1	58.8	59.5	85.2	62.9	64.6	93.1	68.4	70.3	80.0	61.3	62.3
Arkansas												
October 1998 .....	58.8	W	46.6	68.3	—	51.0	77.8	—	54.8	62.9	W	48.6
September 1998 .....	56.6	W	44.4	66.4	—	48.4	75.9	W	52.8	60.7	W	46.5
October 1997 .....	73.9	W	60.1	84.3	W	64.2	93.8	W	68.6	77.9	W	61.9
Louisiana												
October 1998 .....	56.1	46.3	44.9	68.9	W	51.6	76.8	53.3	54.7	62.2	47.4	47.6
September 1998 .....	56.0	41.9	41.9	67.6	W	48.2	76.9	49.4	49.7	62.0	43.2	44.6
October 1997 .....	75.5	64.6	58.4	86.2	W	65.0	94.6	W	67.6	80.7	64.6	61.2
Mississippi												
October 1998 .....	54.9	46.3	45.4	64.4	49.6	50.5	72.7	53.8	55.8	59.2	47.9	47.8
September 1998 .....	54.7	42.0	41.5	65.1	45.3	47.3	73.3	49.6	52.4	59.3	43.5	43.8
October 1997 .....	73.4	58.3	58.4	83.2	W	63.4	92.4	65.7	69.1	77.5	59.9	60.5
New Mexico												
October 1998 .....	62.8	W	49.4	72.1	—	54.3	80.9	—	59.0	66.0	W	51.1
September 1998 .....	65.0	W	46.6	74.8	—	51.4	82.1	W	56.4	68.2	W	48.3
October 1997 .....	86.2	77.8	71.7	94.2	W	76.5	103.6	W	81.1	89.0	78.2	73.3
Texas												
October 1998 .....	57.5	43.1	44.2	68.8	W	51.5	76.4	53.4	54.2	62.7	43.8	46.0
September 1998 .....	55.2	W	41.9	67.2	44.5	48.8	74.4	W	51.5	60.7	W	43.6
October 1997 .....	74.3	57.9	58.6	85.7	61.4	66.2	93.2	72.6	68.0	79.2	58.8	60.2
PAD District IV												
October 1998 .....	65.0	NA	55.8	76.5	NA	61.2	86.6	NA	65.9	70.6	NA	58.1
September 1998 .....	64.5	NA	55.4	76.1	NA	60.0	86.2	NA	65.5	70.2	NA	57.6
October 1997 .....	85.0	78.0	75.4	97.3	W	80.6	106.9	87.3	85.9	90.5	80.4	77.6
Colorado												
October 1998 .....	64.4	49.5	50.1	77.1	W	55.7	87.3	W	59.6	70.6	50.3	52.4
September 1998 .....	63.6	49.8	49.0	76.5	W	53.9	86.6	—	58.3	70.0	49.8	51.1
October 1997 .....	84.4	68.5	69.6	97.7	—	74.7	107.5	W	79.1	90.2	69.6	71.6

See footnotes at end of table.

**Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>		Through Retail Outlets	Other End Users <sup>a</sup>	
<b>Idaho</b>												
October 1998 .....	68.8	W	61.4	77.7	NA	66.5	86.0	W	71.8	71.0	W	63.2
September 1998 .....	68.7	W	61.7	77.3	NA	67.0	85.9	W	72.3	70.9	W	63.6
October 1997 .....	88.2	81.4	81.7	96.2	W	86.6	103.8	W	91.9	90.1	W	83.4
<b>Montana</b>												
October 1998 .....	W	W	58.1	W	—	63.2	W	W	70.1	W	61.2	60.6
September 1998 .....	W	W	58.8	W	—	64.1	W	W	70.6	W	W	61.2
October 1997 .....	W	77.5	76.2	W	—	82.1	W	W	88.4	W	78.4	79.0
<b>Utah</b>												
October 1998 .....	65.6	NA	58.8	74.4	NA	64.4	84.3	W	68.6	70.1	NA	61.5
September 1998 .....	65.7	NA	57.7	74.4	NA	64.2	84.7	W	67.9	70.2	NA	60.5
October 1997 .....	85.8	W	79.3	96.1	83.2	84.7	105.7	W	89.3	91.6	80.3	81.8
<b>Wyoming</b>												
October 1998 .....	68.3	58.8	53.6	76.5	—	64.6	W	W	64.0	71.4	63.5	55.6
September 1998 .....	69.7	W	54.1	77.8	—	64.0	W	W	64.4	72.9	W	56.1
October 1997 .....	89.2	W	74.1	W	—	83.1	W	W	84.1	92.4	82.0	75.9
<b>PAD District V</b>												
October 1998 .....	69.1	54.7	57.2	79.7	58.2	66.4	90.3	64.5	71.9	73.7	56.1	60.7
September 1998 .....	69.6	53.1	57.5	79.6	59.3	66.2	90.1	66.1	72.2	74.0	55.1	61.0
October 1997 .....	95.4	87.3	82.6	105.2	NA	92.0	115.5	94.2	97.3	99.3	90.1	85.9
<b>Alaska</b>												
October 1998 .....	95.4	86.6	69.2	106.8	W	83.2	114.0	W	83.4	98.6	87.5	71.1
September 1998 .....	95.2	NA	66.2	103.2	—	81.5	112.2	W	79.8	97.7	NA	68.0
October 1997 .....	120.4	W	83.8	W	—	100.5	130.1	W	100.0	122.0	W	86.0
<b>Arizona</b>												
October 1998 .....	65.8	53.7	53.6	76.0	W	62.0	86.1	W	67.6	69.8	54.6	56.3
September 1998 .....	66.3	53.6	52.6	76.5	—	60.5	86.5	W	66.4	70.4	54.7	55.3
October 1997 .....	95.7	84.4	83.4	105.4	—	91.4	115.1	W	95.1	99.2	85.1	86.1
<b>California</b>												
October 1998 .....	68.9	54.0	57.7	79.8	58.6	66.6	89.5	63.9	71.9	73.8	55.2	61.4
September 1998 .....	69.6	W	58.4	79.7	W	66.5	89.2	W	72.4	74.2	W	62.0
October 1997 .....	94.2	NA	83.6	104.7	NA	92.6	114.4	W	98.1	98.5	NA	87.0
<b>Hawaii</b>												
October 1998 .....	106.8	W	90.7	111.7	W	97.3	119.7	W	102.9	110.8	W	94.8
September 1998 .....	108.1	W	90.9	112.8	W	97.2	122.1	W	103.0	112.4	W	95.1
October 1997 .....	115.2	W	100.4	121.1	W	107.7	129.5	W	113.2	119.6	W	105.0
<b>Nevada</b>												
October 1998 .....	66.3	56.9	56.5	78.8	—	63.7	89.2	—	69.4	71.5	NA	59.2
September 1998 .....	68.2	58.9	55.6	79.1	W	62.4	89.2	—	68.9	73.1	62.5	58.6
October 1997 .....	92.3	88.5	83.8	103.6	—	90.2	W	—	96.6	96.9	88.5	86.2
<b>Oregon</b>												
October 1998 .....	71.5	58.3	53.9	82.9	—	63.1	92.9	W	69.4	75.2	59.5	56.2
September 1998 .....	71.6	NA	53.4	82.6	W	62.5	93.0	W	69.1	75.2	NA	55.6
October 1997 .....	100.6	76.9	78.7	111.4	—	89.7	121.5	W	91.5	103.8	77.4	80.7
<b>Washington</b>												
October 1998 .....	64.8	W	55.0	77.1	—	64.1	87.6	—	69.5	69.4	W	58.1
September 1998 .....	65.5	52.2	55.7	77.4	—	64.8	88.2	—	70.5	69.9	52.2	58.7
October 1997 .....	91.9	W	78.2	103.0	W	87.5	113.0	—	92.3	95.6	74.5	81.0

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Sales to "other end users" are all end-user sales that were not made through company-operated retail outlets, e.g., sales to agricultural customers or utilities.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>						
October 1998 .....	95.1	90.7	46.9	45.9	50.6	46.3
September 1998 .....	94.1	89.8	44.9	44.6	46.2	45.9
October 1997 .....	113.9	104.7	61.5	61.1	72.9	63.8
<b>PAD District I</b>						
October 1998 .....	98.2	89.2	46.4	47.4	NA	47.3
September 1998 .....	96.0	87.7	43.9	44.8	50.6	47.6
October 1997 .....	113.8	104.4	60.5	61.5	74.9	62.9
<b>Subdistrict IA</b>						
October 1998 .....	W	89.4	49.1	48.9	64.8	50.9
September 1998 .....	W	86.7	47.8	49.6	63.2	51.3
October 1997 .....	W	105.4	63.7	66.2	W	66.8
<b>Connecticut</b>						
October 1998 .....	W	96.5	NA	NA	—	W
September 1998 .....	W	90.8	48.2	47.4	W	W
October 1997 .....	W	112.3	64.6	67.0	W	W
<b>Maine</b>						
October 1998 .....	W	W	W	W	—	50.1
September 1998 .....	W	W	W	W	—	W
October 1997 .....	W	W	W	W	—	66.4
<b>Massachusetts</b>						
October 1998 .....	W	W	48.4	48.0	W	W
September 1998 .....	W	W	47.1	49.7	—	W
October 1997 .....	W	103.2	62.4	64.8	—	W
<b>New Hampshire</b>						
October 1998 .....	W	W	49.9	W	W	W
September 1998 .....	W	W	48.2	W	W	W
October 1997 .....	W	W	66.1	W	W	W
<b>Rhode Island</b>						
October 1998 .....	W	NA	W	W	—	W
September 1998 .....	W	W	W	W	—	W
October 1997 .....	W	W	65.0	W	—	W
<b>Vermont</b>						
October 1998 .....	—	W	W	W	NA	—
September 1998 .....	—	W	W	W	NA	—
October 1997 .....	W	—	W	W	—	W
<b>Subdistrict IB</b>						
October 1998 .....	W	89.3	45.9	46.7	NA	46.8
September 1998 .....	W	87.4	43.5	44.1	50.0	47.2
October 1997 .....	115.9	104.1	60.0	60.8	73.8	62.4
<b>Delaware</b>						
October 1998 .....	W	92.3	W	NA	—	W
September 1998 .....	W	87.2	W	W	—	W
October 1997 .....	—	108.0	65.3	W	—	W
<b>District of Columbia</b>						
October 1998 .....	—	—	—	NA	—	—
September 1998 .....	—	—	—	W	—	—
October 1997 .....	—	—	—	W	—	—
<b>Maryland</b>						
October 1998 .....	W	W	46.5	46.1	W	48.4
September 1998 .....	W	W	44.2	44.3	—	47.5
October 1997 .....	W	W	60.6	61.4	W	61.0
<b>New Jersey</b>						
October 1998 .....	W	NA	45.7	46.1	W	45.4
September 1998 .....	W	87.0	43.0	43.7	W	46.4
October 1997 .....	W	104.0	59.6	60.0	W	60.8
<b>New York</b>						
October 1998 .....	W	88.3	NA	48.1	57.2	52.4
September 1998 .....	W	87.4	44.5	44.8	W	51.0
October 1997 .....	W	99.1	61.6	61.9	78.8	65.4
<b>Pennsylvania</b>						
October 1998 .....	NA	91.8	45.1	46.4	NA	48.1
September 1998 .....	93.4	88.0	43.5	44.1	69.8	47.8
October 1997 .....	114.8	106.1	60.0	61.3	84.9	64.4

See footnotes at end of table.

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>						
October 1998 .....	95.4	89.1	46.5	48.0	NA	48.4
September 1998 .....	93.8	88.1	43.8	45.2	61.4	48.1
October 1997 .....	111.7	104.4	60.6	62.1	NA	63.5
<b>Florida</b>						
October 1998 .....	92.7	87.2	46.9	51.1	W	49.4
September 1998 .....	90.8	85.8	44.4	47.0	W	47.2
October 1997 .....	108.6	101.4	61.0	63.0	W	63.5
<b>Georgia</b>						
October 1998 .....	94.5	87.7	45.5	46.0	92.7	48.5
September 1998 .....	91.7	88.3	42.9	43.5	NA	48.3
October 1997 .....	110.5	104.8	59.3	60.6	124.1	63.1
<b>North Carolina</b>						
October 1998 .....	W	92.8	46.1	47.5	67.0	48.2
September 1998 .....	W	90.8	42.8	45.0	W	47.4
October 1997 .....	W	108.6	60.5	63.3	W	63.0
<b>South Carolina</b>						
October 1998 .....	W	94.1	51.1	51.7	NA	48.6
September 1998 .....	W	91.4	48.2	49.6	64.3	49.1
October 1997 .....	117.3	107.1	65.2	65.6	NA	63.7
<b>Virginia</b>						
October 1998 .....	W	94.1	46.7	48.3	W	47.6
September 1998 .....	W	88.8	43.7	46.0	W	48.9
October 1997 .....	W	109.1	60.6	62.9	W	63.7
<b>West Virginia</b>						
October 1998 .....	W	W	W	W	W	57.9
September 1998 .....	W	86.8	W	W	W	W
October 1997 .....	W	W	W	65.5	85.0	71.9
<b>PAD District II</b>						
October 1998 .....	90.4	86.8	47.4	48.4	53.9	51.8
September 1998 .....	90.2	85.6	44.9	46.5	W	50.6
October 1997 .....	106.3	98.3	61.5	62.9	NA	66.2
<b>Illinois</b>						
October 1998 .....	W	91.2	45.6	49.1	W	48.4
September 1998 .....	W	91.1	42.8	47.5	W	W
October 1997 .....	W	W	60.0	62.2	W	62.6
<b>Indiana</b>						
October 1998 .....	W	89.1	47.2	46.4	W	54.3
September 1998 .....	W	90.3	45.1	NA	W	53.2
October 1997 .....	W	102.9	61.2	63.9	W	67.7
<b>Iowa</b>						
October 1998 .....	W	86.4	NA	51.8	—	W
September 1998 .....	W	86.1	NA	49.2	—	W
October 1997 .....	W	101.5	65.2	66.9	—	W
<b>Kansas</b>						
October 1998 .....	W	W	51.4	51.9	—	W
September 1998 .....	W	W	49.9	50.6	—	59.8
October 1997 .....	W	W	64.9	66.4	—	77.4
<b>Kentucky</b>						
October 1998 .....	W	W	46.8	49.7	76.8	W
September 1998 .....	W	W	44.3	46.4	NA	56.3
October 1997 .....	115.7	W	61.5	61.0	94.7	71.6
<b>Michigan</b>						
October 1998 .....	90.8	W	NA	49.0	NA	52.0
September 1998 .....	W	89.7	46.5	46.4	61.3	51.3
October 1997 .....	105.6	86.9	61.8	62.2	NA	64.3
<b>Minnesota</b>						
October 1998 .....	W	86.9	49.5	50.6	W	W
September 1998 .....	W	W	47.3	47.8	W	W
October 1997 .....	W	NA	63.6	NA	W	73.9
<b>Missouri</b>						
October 1998 .....	W	84.9	48.2	52.2	—	53.4
September 1998 .....	W	84.7	45.5	50.2	—	W
October 1997 .....	W	W	62.7	63.0	—	69.5

See footnotes at end of table.

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>						
October 1998 .....	W	W	48.3	53.9	—	—
September 1998 .....	W	W	46.6	50.6	—	—
October 1997 .....	W	W	62.8	67.1	—	W
<b>North Dakota</b>						
October 1998 .....	W	W	NA	NA	—	W
September 1998 .....	W	W	54.3	59.2	—	W
October 1997 .....	W	W	69.5	74.0	—	W
<b>Ohio</b>						
October 1998 .....	93.1	81.6	47.9	48.3	84.6	53.1
September 1998 .....	92.6	77.3	45.4	47.3	W	54.0
October 1997 .....	108.4	95.6	61.7	61.7	NA	67.3
<b>Oklahoma</b>						
October 1998 .....	82.0	87.0	47.8	44.4	—	W
September 1998 .....	81.8	85.5	44.9	42.5	—	W
October 1997 .....	99.5	99.7	62.7	61.8	—	68.0
<b>South Dakota</b>						
October 1998 .....	W	91.3	54.4	56.6	—	—
September 1998 .....	W	91.0	52.4	55.6	—	—
October 1997 .....	W	W	67.6	69.3	—	W
<b>Tennessee</b>						
October 1998 .....	W	90.4	46.0	49.0	58.2	49.6
September 1998 .....	W	87.2	44.6	47.3	W	52.2
October 1997 .....	W	105.5	60.4	64.7	NA	64.2
<b>Wisconsin</b>						
October 1998 .....	—	W	NA	51.4	W	54.5
September 1998 .....	W	W	45.9	48.9	W	56.8
October 1997 .....	W	102.2	61.4	63.8	W	67.6
<b>PAD District III</b>						
October 1998 .....	88.0	79.6	44.4	43.2	W	43.0
September 1998 .....	84.7	76.2	42.3	41.5	40.4	42.3
October 1997 .....	105.0	98.2	58.3	58.6	82.0	58.9
<b>Alabama</b>						
October 1998 .....	W	92.1	47.9	49.7	W	53.5
September 1998 .....	W	90.3	44.8	48.2	W	51.5
October 1997 .....	W	106.6	62.0	65.4	W	NA
<b>Arkansas</b>						
October 1998 .....	W	80.0	49.1	53.1	—	W
September 1998 .....	W	79.4	46.4	50.2	—	W
October 1997 .....	W	W	64.4	61.6	—	W
<b>Louisiana</b>						
October 1998 .....	W	84.6	44.0	43.4	W	W
September 1998 .....	88.5	81.6	41.8	41.3	W	41.9
October 1997 .....	106.3	100.5	58.0	58.5	W	55.9
<b>Mississippi</b>						
October 1998 .....	W	88.4	46.2	41.5	W	W
September 1998 .....	W	W	41.0	39.6	W	W
October 1997 .....	W	99.3	57.1	57.5	W	58.6
<b>New Mexico</b>						
October 1998 .....	W	W	50.2	51.4	—	W
September 1998 .....	W	W	47.7	48.6	—	W
October 1997 .....	W	W	64.2	NA	W	W
<b>Texas</b>						
October 1998 .....	82.4	74.8	44.2	43.1	W	W
September 1998 .....	NA	72.1	42.4	41.5	W	42.5
October 1997 .....	103.0	94.8	58.3	58.6	W	58.9
<b>PAD District IV</b>						
October 1998 .....	98.3	92.2	54.2	52.9	W	76.8
September 1998 .....	100.1	92.2	54.5	51.4	—	W
October 1997 .....	111.4	105.6	68.4	65.9	—	80.7
<b>Colorado</b>						
October 1998 .....	W	W	48.7	49.7	—	W
September 1998 .....	W	W	47.7	47.3	—	—
October 1997 .....	W	W	60.4	NA	—	77.4

See footnotes at end of table.

**Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>						
October 1998 .....	W	W	56.5	59.7	—	W
September 1998 .....	—	W	59.1	60.5	—	W
October 1997 .....	W	W	79.7	76.9	—	W
<b>Montana</b>						
October 1998 .....	W	—	61.9	67.5	—	—
September 1998 .....	W	W	62.1	66.7	—	—
October 1997 .....	W	W	76.5	78.5	—	W
<b>Utah</b>						
October 1998 .....	W	94.2	58.5	60.4	—	W
September 1998 .....	W	95.4	58.4	62.1	—	W
October 1997 .....	W	104.4	74.3	79.7	—	W
<b>Wyoming</b>						
October 1998 .....	W	W	59.8	61.7	W	—
September 1998 .....	W	W	57.3	55.4	—	W
October 1997 .....	W	W	77.7	W	—	—
<b>PAD District V</b>						
October 1998 .....	98.3	100.6	48.2	49.1	W	NA
September 1998 .....	98.9	99.6	46.5	47.4	W	55.0
October 1997 .....	128.0	118.8	64.2	65.0	W	NA
<b>Alaska</b>						
October 1998 .....	W	100.7	50.1	56.6	W	—
September 1998 .....	W	97.8	49.2	53.8	W	—
October 1997 .....	W	129.6	66.3	69.2	—	—
<b>Arizona</b>						
October 1998 .....	W	100.5	50.1	48.5	—	W
September 1998 .....	W	98.3	47.7	50.6	—	W
October 1997 .....	W	111.4	65.4	65.9	W	W
<b>California</b>						
October 1998 .....	104.9	97.2	47.5	46.8	—	55.2
September 1998 .....	104.5	97.9	45.7	45.2	—	53.8
October 1997 .....	127.5	117.4	63.5	63.0	—	NA
<b>Hawaii</b>						
October 1998 .....	—	W	50.6	W	—	—
September 1998 .....	—	W	W	W	—	—
October 1997 .....	—	W	W	W	—	—
<b>Nevada</b>						
October 1998 .....	W	95.3	50.4	53.3	—	W
September 1998 .....	W	98.0	48.8	53.0	—	—
October 1997 .....	W	113.7	66.1	67.7	—	W
<b>Oregon</b>						
October 1998 .....	—	W	48.5	50.4	—	W
September 1998 .....	W	W	46.8	50.2	—	W
October 1997 .....	—	119.5	64.1	67.2	NA	NA
<b>Washington</b>						
October 1998 .....	W	W	47.5	48.5	—	W
September 1998 .....	W	W	45.9	48.6	—	W
October 1997 .....	W	W	63.6	NA	—	80.7

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."



**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>						
October 1998 .....	57.9	53.7	49.7	44.7	43.1	35.3
September 1998 .....	NA	53.3	49.2	44.9	39.9	36.1
October 1997 .....	66.8	72.1	64.3	61.2	55.5	56.8
<b>PAD District I</b>						
October 1998 .....	53.5	48.9	48.6	42.9	W	39.4
September 1998 .....	54.1	49.3	48.1	43.3	W	38.6
October 1997 .....	NA	65.8	63.6	59.7	W	56.3
<b>Subdistrict IA</b>						
October 1998 .....	—	51.8	50.6	43.2	W	W
September 1998 .....	W	W	50.4	44.5	W	W
October 1997 .....	W	68.5	63.7	60.0	W	W
<b>Connecticut</b>						
October 1998 .....	—	W	47.5	42.8	W	W
September 1998 .....	—	W	47.2	43.3	W	W
October 1997 .....	—	W	63.3	60.1	W	W
<b>Maine</b>						
October 1998 .....	—	W	W	45.0	—	—
September 1998 .....	—	W	45.3	46.5	—	—
October 1997 .....	—	W	61.2	60.8	—	—
<b>Massachusetts</b>						
October 1998 .....	—	W	50.0	43.1	W	—
September 1998 .....	—	—	51.5	44.4	W	—
October 1997 .....	W	W	64.8	59.8	W	—
<b>New Hampshire</b>						
October 1998 .....	—	—	W	43.4	—	—
September 1998 .....	W	—	60.2	44.2	—	—
October 1997 .....	—	—	66.3	63.0	W	—
<b>Rhode Island</b>						
October 1998 .....	—	W	45.5	42.5	—	—
September 1998 .....	—	W	47.5	44.7	—	—
October 1997 .....	—	W	62.7	59.5	—	—
<b>Vermont</b>						
October 1998 .....	—	W	72.3	46.0	W	—
September 1998 .....	—	W	67.5	W	W	—
October 1997 .....	—	W	62.8	62.5	W	—
<b>Subdistrict IB</b>						
October 1998 .....	52.4	48.8	49.2	42.0	W	39.3
September 1998 .....	54.1	48.8	48.5	42.3	W	38.7
October 1997 .....	75.3	64.6	64.4	59.4	W	56.4
<b>Delaware</b>						
October 1998 .....	—	—	47.1	43.0	W	—
September 1998 .....	—	—	46.2	44.2	W	—
October 1997 .....	—	—	62.5	W	W	—
<b>District of Columbia</b>						
October 1998 .....	—	—	W	W	W	—
September 1998 .....	—	—	NA	NA	W	—
October 1997 .....	—	—	W	W	—	—
<b>Maryland</b>						
October 1998 .....	W	—	46.2	44.3	W	—
September 1998 .....	W	—	45.5	45.1	W	W
October 1997 .....	W	W	60.2	60.4	W	W
<b>New Jersey</b>						
October 1998 .....	NA	W	46.9	40.5	W	39.1
September 1998 .....	W	—	46.9	40.5	W	39.0
October 1997 .....	—	60.4	62.7	58.6	W	55.2
<b>New York</b>						
October 1998 .....	W	49.1	50.9	43.5	W	W
September 1998 .....	W	48.4	50.7	43.5	W	38.5
October 1997 .....	W	68.2	67.3	60.4	W	57.2
<b>Pennsylvania</b>						
October 1998 .....	W	48.8	51.0	42.7	W	—
September 1998 .....	W	49.2	50.0	43.3	W	—
October 1997 .....	83.7	65.3	66.0	59.5	W	—

See footnotes at end of table.

**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>						
October 1998 .....	W	48.8	48.1	44.0	W	W
September 1998 .....	—	49.4	47.7	44.4	W	—
October 1997 .....	W	69.9	63.1	60.0	55.6	W
<b>Florida</b>						
October 1998 .....	—	—	49.3	44.8	W	—
September 1998 .....	—	—	48.5	44.8	W	—
October 1997 .....	W	—	64.0	60.4	W	—
<b>Georgia</b>						
October 1998 .....	—	W	49.7	43.4	—	—
September 1998 .....	—	W	49.1	44.1	—	—
October 1997 .....	—	—	63.2	59.4	W	—
<b>North Carolina</b>						
October 1998 .....	—	W	46.0	43.7	W	—
September 1998 .....	—	W	45.3	44.2	W	—
October 1997 .....	—	—	61.4	59.9	W	—
<b>South Carolina</b>						
October 1998 .....	—	W	48.2	43.7	—	—
September 1998 .....	—	W	47.8	44.2	—	—
October 1997 .....	—	W	64.9	60.0	W	—
<b>Virginia</b>						
October 1998 .....	—	48.1	45.1	43.8	W	W
September 1998 .....	—	50.2	45.4	44.3	W	—
October 1997 .....	—	W	60.6	59.8	W	W
<b>West Virginia</b>						
October 1998 .....	W	—	47.2	45.6	—	—
September 1998 .....	—	—	48.8	45.7	—	—
October 1997 .....	W	W	63.9	61.7	—	—
<b>PAD District II</b>						
October 1998 .....	NA	51.1	48.9	45.4	W	W
September 1998 .....	NA	51.9	48.3	46.0	W	—
October 1997 .....	64.5	68.7	62.5	61.8	53.2	W
<b>Illinois</b>						
October 1998 .....	W	49.9	48.2	43.2	—	—
September 1998 .....	W	50.7	46.3	44.1	—	—
October 1997 .....	W	63.7	61.5	59.1	—	—
<b>Indiana</b>						
October 1998 .....	NA	52.0	47.7	44.9	—	W
September 1998 .....	NA	49.9	47.4	45.1	W	—
October 1997 .....	W	65.8	61.5	61.2	W	W
<b>Iowa</b>						
October 1998 .....	NA	51.9	NA	47.3	—	—
September 1998 .....	NA	51.4	NA	48.2	—	—
October 1997 .....	W	69.4	64.7	64.1	—	—
<b>Kansas</b>						
October 1998 .....	W	47.4	48.1	45.0	—	—
September 1998 .....	W	49.8	48.2	45.8	—	—
October 1997 .....	W	67.8	62.5	62.6	—	—
<b>Kentucky</b>						
October 1998 .....	—	W	49.3	45.9	W	—
September 1998 .....	—	W	48.5	45.4	W	—
October 1997 .....	W	W	63.3	60.9	W	—
<b>Michigan</b>						
October 1998 .....	NA	50.5	48.7	45.1	—	—
September 1998 .....	W	52.1	49.1	46.2	—	—
October 1997 .....	W	64.7	62.5	61.4	—	—
<b>Minnesota</b>						
October 1998 .....	W	51.0	NA	47.6	W	W
September 1998 .....	W	53.0	NA	48.3	W	—
October 1997 .....	W	69.6	65.9	65.2	W	NA
<b>Missouri</b>						
October 1998 .....	NA	51.0	49.5	45.0	—	—
September 1998 .....	NA	52.1	49.1	46.0	—	—
October 1997 .....	W	68.9	61.9	61.6	—	—

See footnotes at end of table.

**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>						
October 1998 .....	NA	52.3	NA	46.5	—	—
September 1998 .....	W	52.8	45.0	47.5	—	—
October 1997 .....	W	70.0	59.6	64.3	—	—
<b>North Dakota</b>						
October 1998 .....	NA	53.1	W	49.3	—	—
September 1998 .....	NA	54.1	W	49.8	—	—
October 1997 .....	W	72.6	W	66.6	—	—
<b>Ohio</b>						
October 1998 .....	W	54.1	50.3	46.9	W	—
September 1998 .....	W	NA	50.4	46.7	—	—
October 1997 .....	67.6	65.3	64.6	61.8	W	—
<b>Oklahoma</b>						
October 1998 .....	—	46.9	47.7	43.5	—	—
September 1998 .....	—	47.7	46.8	44.3	—	—
October 1997 .....	W	64.6	59.7	61.0	—	—
<b>South Dakota</b>						
October 1998 .....	W	53.7	49.6	48.5	—	—
September 1998 .....	W	53.9	48.6	49.4	—	—
October 1997 .....	69.7	71.4	65.9	65.5	—	—
<b>Tennessee</b>						
October 1998 .....	—	W	49.1	44.4	W	—
September 1998 .....	—	W	48.4	44.7	W	—
October 1997 .....	—	—	62.2	59.6	W	—
<b>Wisconsin</b>						
October 1998 .....	W	51.3	47.7	44.9	—	—
September 1998 .....	W	51.1	48.4	45.7	—	—
October 1997 .....	66.8	67.7	62.7	61.5	—	—
<b>PAD District III</b>						
October 1998 .....	W	56.3	47.5	42.1	—	W
September 1998 .....	—	W	46.7	41.6	W	W
October 1997 .....	W	NA	62.4	58.0	—	—
<b>Alabama</b>						
October 1998 .....	—	—	46.3	43.4	—	—
September 1998 .....	—	—	46.1	43.6	—	—
October 1997 .....	—	—	61.7	59.3	—	—
<b>Arkansas</b>						
October 1998 .....	—	—	52.9	43.1	—	—
September 1998 .....	—	—	53.5	44.0	—	—
October 1997 .....	—	—	64.1	59.6	—	—
<b>Louisiana</b>						
October 1998 .....	—	—	46.2	40.8	—	—
September 1998 .....	—	—	45.8	39.9	—	—
October 1997 .....	—	—	63.1	56.4	—	—
<b>Mississippi</b>						
October 1998 .....	—	—	44.4	43.1	—	W
September 1998 .....	—	—	44.6	42.6	W	W
October 1997 .....	—	—	61.4	57.5	—	—
<b>New Mexico</b>						
October 1998 .....	—	59.8	67.7	48.3	—	—
September 1998 .....	—	56.7	67.1	45.9	—	—
October 1997 .....	—	75.8	78.1	65.0	—	—
<b>Texas</b>						
October 1998 .....	W	W	46.7	41.8	—	W
September 1998 .....	—	W	45.5	41.3	—	W
October 1997 .....	W	W	61.3	58.0	—	—
<b>PAD District IV</b>						
October 1998 .....	63.3	62.1	56.7	53.2	—	—
September 1998 .....	NA	60.7	55.5	51.9	—	—
October 1997 .....	75.7	79.0	70.6	69.2	—	—
<b>Colorado</b>						
October 1998 .....	W	56.9	54.0	48.7	—	—
September 1998 .....	W	54.9	51.8	46.7	—	—
October 1997 .....	W	73.8	67.6	65.0	—	—

See footnotes at end of table.

**Table 37. Refiner Prices of Distillate Fuels by PAD District and State**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate <sup>a</sup>		No. 4 Fuel <sup>b</sup>	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>						
October 1998 .....	NA	65.5	57.9	57.2	—	—
September 1998 .....	W	65.1	57.5	56.5	—	—
October 1997 .....	84.7	83.7	74.2	73.9	—	—
<b>Montana</b>						
October 1998 .....	W	63.3	53.9	52.4	—	—
September 1998 .....	W	62.3	55.7	52.7	—	—
October 1997 .....	80.7	80.0	66.6	68.8	—	—
<b>Utah</b>						
October 1998 .....	68.2	NA	57.6	58.4	—	—
September 1998 .....	W	NA	56.3	57.2	—	—
October 1997 .....	84.9	84.9	73.8	73.3	—	—
<b>Wyoming</b>						
October 1998 .....	W	63.3	58.1	51.6	—	—
September 1998 .....	62.5	59.1	56.7	49.2	—	—
October 1997 .....	W	78.5	70.7	67.5	—	—
<b>PAD District V</b>						
October 1998 .....	NA	NA	53.6	49.4	W	W
September 1998 .....	57.1	54.9	53.1	49.8	W	W
October 1997 .....	68.3	81.2	70.7	68.2	W	65.3
<b>Alaska</b>						
October 1998 .....	NA	NA	74.3	50.8	W	—
September 1998 .....	56.9	54.3	NA	50.5	W	W
October 1997 .....	67.5	81.6	81.0	69.0	W	W
<b>Arizona</b>						
October 1998 .....	—	NA	54.2	47.9	—	—
September 1998 .....	—	W	54.8	48.2	—	—
October 1997 .....	W	—	69.4	65.9	—	—
<b>California</b>						
October 1998 .....	—	—	50.9	50.0	—	W
September 1998 .....	—	—	51.0	50.3	—	W
October 1997 .....	—	—	70.6	68.5	—	W
<b>Hawaii</b>						
October 1998 .....	—	—	W	67.3	—	—
September 1998 .....	—	—	W	69.3	—	—
October 1997 .....	—	—	W	77.0	—	—
<b>Nevada</b>						
October 1998 .....	—	W	55.7	51.5	—	—
September 1998 .....	—	—	56.3	50.8	—	—
October 1997 .....	—	85.4	W	68.3	—	—
<b>Oregon</b>						
October 1998 .....	—	59.1	W	NA	—	—
September 1998 .....	—	W	W	48.1	—	—
October 1997 .....	—	77.7	66.2	67.6	—	—
<b>Washington</b>						
October 1998 .....	NA	60.2	NA	47.2	—	—
September 1998 .....	W	59.7	45.1	48.0	—	—
October 1997 .....	W	80.9	69.0	67.7	—	W

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.

<sup>b</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Notes: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.

**Table 38. Propane (Consumer Grade) Prices by Sales Type and PAD District**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users							Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Petro- Chemical	Other End Users	Average	
United States								
October 1998 .....	82.9	78.0	66.2	58.2	25.9	56.1	71.6	28.4
September 1998 .....	81.8	79.1	65.7	58.0	24.3	59.7	71.6	26.9
October 1997 .....	89.9	84.9	73.2	69.9	39.5	65.6	78.2	41.9
PAD District I								
October 1998 .....	105.4	82.8	67.8	58.5	—	66.5	90.6	33.5
September 1998 .....	104.2	82.8	67.6	56.6	—	66.4	88.6	32.2
October 1997 .....	112.2	88.9	74.7	68.1	W	78.2	97.5	47.2
Subdistrict IA								
October 1998 .....	117.0	86.4	W	54.5	—	87.6	95.3	38.2
September 1998 .....	117.9	85.5	W	51.2	—	NA	95.9	36.3
October 1997 .....	124.6	91.7	82.9	64.1	—	124.2	112.5	52.4
Subdistrict IB								
October 1998 .....	110.6	79.3	75.7	63.6	—	69.9	96.0	33.0
September 1998 .....	111.3	80.5	74.4	64.6	—	NA	97.0	31.6
October 1997 .....	119.1	91.5	77.0	75.5	—	NA	103.7	45.8
Subdistrict IC								
October 1998 .....	98.7	83.3	62.0	W	—	63.8	86.1	33.1
September 1998 .....	95.0	82.9	63.6	W	—	64.3	82.2	31.9
October 1997 .....	105.7	87.1	73.1	W	W	72.4	91.5	47.1
PAD District II								
October 1998 .....	66.8	68.7	68.8	57.1	W	52.8	62.5	28.4
September 1998 .....	66.2	71.2	69.7	58.1	W	55.5	64.5	26.5
October 1997 .....	75.2	75.5	74.7	66.1	W	62.1	70.4	41.3
PAD District III								
October 1998 .....	86.1	73.9	62.3	58.5	25.8	63.0	58.3	27.0
September 1998 .....	85.5	73.9	62.4	59.8	24.3	61.9	54.7	25.4
October 1997 .....	92.5	79.3	69.8	80.0	39.4	72.3	64.9	40.2
PAD District IV								
October 1998 .....	67.0	78.4	47.0	56.9	—	67.7	66.3	26.7
September 1998 .....	63.3	82.3	44.9	55.6	—	68.2	63.4	25.2
October 1997 .....	74.7	81.8	59.9	67.3	—	78.4	74.5	40.5
PAD District V								
October 1998 .....	95.4	83.6	65.3	59.0	—	59.9	84.8	30.5
September 1998 .....	89.7	83.3	61.3	59.9	—	58.4	80.6	27.8
October 1997 .....	106.3	97.7	72.2	72.2	—	70.2	94.0	45.7

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 39. No. 2 Distillate<sup>a</sup> Prices by Sales Type, PAD District, and Selected States<sup>b</sup>**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>c</sup>	Other End Users <sup>d</sup>	Average	
United States							
October 1998 .....	78.6	51.9	55.3	58.8	60.5	58.1	45.3
September 1998 .....	77.0	51.6	55.3	58.1	59.8	56.9	45.5
October 1997 .....	92.3	67.3	71.1	73.8	76.5	73.7	61.9
PAD District I							
October 1998 .....	79.1	52.7	55.7	58.7	57.8	60.5	43.7
September 1998 .....	77.6	52.5	55.1	57.4	56.1	58.6	43.9
October 1997 .....	92.8	68.4	70.3	72.8	72.2	75.7	60.6
Subdistrict IA							
October 1998 .....	75.5	55.9	64.7	66.7	NA	68.0	44.2
September 1998 .....	73.9	55.4	63.1	65.7	54.0	66.0	44.6
October 1997 .....	89.8	71.8	75.3	81.6	67.3	82.4	62.5
Connecticut							
October 1998 .....	75.5	56.5	58.5	66.6	59.7	69.5	43.9
September 1998 .....	72.4	54.0	NA	66.4	56.4	66.1	44.0
October 1997 .....	88.9	71.4	66.1	83.1	70.7	81.9	62.7
Maine							
October 1998 .....	74.1	56.5	50.9	65.2	60.1	66.3	45.3
September 1998 .....	74.4	57.1	53.0	63.8	61.1	66.0	46.3
October 1997 .....	90.0	74.8	NA	81.4	NA	81.7	63.8
Massachusetts							
October 1998 .....	75.3	53.5	NA	70.2	NA	67.6	44.1
September 1998 .....	74.2	53.4	72.7	69.3	46.2	65.6	43.8
October 1997 .....	89.5	69.2	84.6	82.6	60.9	82.4	62.5
New Hampshire							
October 1998 .....	71.2	56.5	NA	65.6	54.5	65.0	44.4
September 1998 .....	70.8	56.3	56.5	64.6	NA	64.0	45.1
October 1997 .....	88.2	74.2	69.6	80.4	NA	81.6	61.3
Rhode Island							
October 1998 .....	81.9	57.9	NA	66.0	NA	72.8	42.9
September 1998 .....	78.8	57.3	NA	63.6	NA	68.6	44.7
October 1997 .....	94.6	74.5	73.0	79.4	72.9	86.8	61.5
Vermont							
October 1998 .....	82.4	59.9	59.3	67.8	63.9	70.8	49.0
September 1998 .....	80.5	59.2	58.3	67.3	63.2	69.0	50.0
October 1997 .....	93.1	73.1	78.8	80.7	NA	83.9	64.4
Subdistrict IB							
October 1998 .....	82.0	53.3	57.0	59.1	59.9	63.0	42.9
September 1998 .....	80.1	52.7	56.8	58.4	58.5	60.5	43.0
October 1997 .....	95.9	67.9	71.4	74.0	74.4	77.9	59.9
Delaware							
October 1998 .....	73.9	52.3	63.4	59.6	51.2	60.3	43.6
September 1998 .....	73.0	51.8	64.1	57.8	49.8	57.2	44.5
October 1997 .....	88.0	68.9	77.9	76.0	67.1	75.5	59.8
District of Columbia							
October 1998 .....	W	51.2	—	W	W	NA	44.5
September 1998 .....	84.6	50.2	—	W	W	56.1	NA
October 1997 .....	106.7	68.3	W	W	W	79.2	60.3
Maryland							
October 1998 .....	80.3	55.7	57.8	59.6	54.7	64.0	46.4
September 1998 .....	81.7	54.7	56.6	57.7	51.6	59.7	46.5
October 1997 .....	97.8	67.9	69.9	73.0	NA	77.7	61.2
New Jersey							
October 1998 .....	82.0	50.3	NA	NA	NA	62.6	41.2
September 1998 .....	80.0	50.9	NA	57.6	48.5	59.7	41.1
October 1997 .....	95.4	65.9	75.6	71.5	66.4	76.5	58.7
New York							
October 1998 .....	87.8	55.0	54.2	64.7	67.1	67.2	43.6
September 1998 .....	85.2	54.0	55.3	64.7	67.4	64.5	44.0
October 1997 .....	100.6	70.4	71.0	80.4	79.4	83.4	61.2

See footnotes at end of table.

**Table 39. No. 2 Distillate<sup>a</sup> Prices by Sales Type, PAD District, and Selected States<sup>b</sup>**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>c</sup>	Other End Users <sup>d</sup>	Average	
<b>Pennsylvania</b>							
October 1998 .....	74.1	51.4	53.0	57.8	58.1	58.8	43.9
September 1998 .....	71.7	51.1	52.3	57.1	NA	57.2	44.1
October 1997 .....	87.2	65.8	69.2	73.3	75.2	73.3	60.3
<b>Subdistrict IC</b>							
October 1998 .....	78.8	51.4	54.5	57.0	57.6	55.8	44.6
September 1998 .....	79.9	51.6	53.7	55.4	55.6	54.7	44.9
October 1997 .....	89.4	67.8	69.4	70.9	72.0	70.9	60.5
<b>Virginia</b>							
October 1998 .....	81.5	51.6	50.2	53.7	60.2	57.2	44.4
September 1998 .....	81.5	52.1	51.6	53.8	58.8	56.2	44.8
October 1997 .....	90.2	69.1	64.8	69.4	77.2	72.8	60.5
<b>West Virginia</b>							
October 1998 .....	76.9	49.5	55.2	65.5	51.4	57.1	48.6
September 1998 .....	72.6	NA	NA	62.4	NA	56.9	49.1
October 1997 .....	88.1	66.8	68.0	77.7	67.6	71.3	63.5
<b>PAD District II</b>							
October 1998 .....	73.8	51.3	55.5	58.1	63.5	57.4	46.2
September 1998 .....	72.5	50.9	55.4	57.5	62.7	56.5	46.6
October 1997 .....	87.1	65.4	70.3	73.2	78.8	72.3	62.3
<b>Illinois</b>							
October 1998 .....	69.8	50.5	52.5	62.4	67.9	58.1	44.2
September 1998 .....	66.3	49.8	54.2	62.4	67.1	56.7	44.5
October 1997 .....	82.6	66.1	66.5	77.2	80.8	73.3	60.0
<b>Indiana</b>							
October 1998 .....	73.0	51.1	52.0	57.1	66.4	56.3	45.2
September 1998 .....	72.5	49.7	51.9	56.3	65.1	55.0	45.4
October 1997 .....	84.5	64.7	68.9	71.7	81.0	70.5	61.4
<b>Michigan</b>							
October 1998 .....	77.3	55.2	57.0	62.0	62.1	60.4	46.9
September 1998 .....	75.9	56.4	57.1	60.3	59.8	59.9	48.2
October 1997 .....	88.9	68.2	70.6	72.7	73.4	72.5	62.4
<b>Minnesota</b>							
October 1998 .....	70.7	55.5	60.7	60.9	63.9	61.9	48.4
September 1998 .....	70.5	55.0	61.8	60.5	65.1	61.8	49.2
October 1997 .....	86.2	70.4	76.8	78.9	82.7	80.0	66.0
<b>Ohio</b>							
October 1998 .....	74.3	51.2	57.2	59.3	59.6	56.6	47.4
September 1998 .....	72.2	50.9	55.9	58.1	57.8	55.5	47.3
October 1997 .....	88.2	65.4	70.1	73.0	72.4	70.6	62.6
<b>Wisconsin</b>							
October 1998 .....	76.9	52.8	59.5	60.7	70.8	61.4	45.5
September 1998 .....	74.9	53.9	60.8	59.6	70.3	60.6	46.2
October 1997 .....	89.5	67.1	72.0	74.2	79.3	74.7	62.0
<b>PAD District III</b>							
October 1998 .....	57.9	47.4	51.3	54.6	55.7	52.1	42.6
September 1998 .....	59.8	47.6	52.0	53.9	56.1	51.8	42.1
October 1997 .....	73.9	62.6	68.1	69.2	71.1	67.4	59.3
<b>PAD District IV</b>							
October 1998 .....	78.6	57.0	63.3	66.0	67.1	63.1	53.8
September 1998 .....	78.3	56.8	62.9	65.0	66.1	62.4	52.5
October 1997 .....	91.8	73.2	80.9	81.9	85.2	79.7	70.0
<b>Idaho</b>							
October 1998 .....	78.8	60.9	68.5	69.0	68.7	67.9	58.1
September 1998 .....	78.4	61.6	68.5	69.0	68.7	68.0	57.5
October 1997 .....	93.0	79.6	86.9	86.0	88.3	86.1	75.0

See footnotes at end of table.

**Table 39. No. 2 Distillate<sup>a</sup> Prices by Sales Type, PAD District, and Selected States<sup>b</sup>**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>C</sup>	Other End Users <sup>d</sup>	Average	
PAD District V							
October 1998 .....	88.7	54.2	55.5	67.7	56.9	59.1	49.6
September 1998 .....	86.5	54.1	56.0	68.4	58.5	58.8	50.3
October 1997 .....	104.3	71.4	74.8	85.1	79.0	77.3	67.7
Alaska							
October 1998 .....	84.3	76.8	55.5	91.9	73.5	75.7	53.1
September 1998 .....	83.4	NA	NA	89.2	74.1	NA	52.2
October 1997 .....	97.8	87.2	NA	109.8	91.2	93.0	72.7
Oregon							
October 1998 .....	83.9	56.3	58.0	67.7	60.9	60.8	48.0
September 1998 .....	83.7	56.3	58.6	67.2	61.2	59.8	49.4
October 1997 .....	101.6	73.3	77.1	85.1	80.8	78.6	68.2
Washington							
October 1998 .....	94.2	56.5	59.6	68.1	68.5	63.9	48.1
September 1998 .....	91.2	53.8	60.1	70.1	68.5	61.2	48.9
October 1997 .....	111.6	72.3	76.2	90.6	93.5	81.2	68.9

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.

<sup>b</sup> Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

<sup>c</sup> Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.

<sup>d</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.



**Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
United States						
October 1998 .....	51.6	55.9	58.8	60.9	56.2	46.3
September 1998 .....	51.4	55.9	58.1	60.3	55.7	46.2
October 1997 .....	67.1	71.8	73.8	76.8	71.6	62.6
PAD District I						
October 1998 .....	51.9	56.7	58.7	58.7	55.5	45.2
September 1998 .....	52.0	55.7	57.4	57.8	54.8	45.1
October 1997 .....	67.5	71.0	72.8	72.6	70.1	61.1
Subdistrict IA						
October 1998 .....	53.9	71.1	66.7	NA	60.1	46.2
September 1998 .....	54.3	69.3	65.7	58.5	59.9	46.5
October 1997 .....	70.2	81.1	81.6	NA	74.1	62.2
Connecticut						
October 1998 .....	52.6	53.6	66.6	64.4	58.4	45.4
September 1998 .....	51.6	55.5	66.4	60.2	58.0	45.9
October 1997 .....	70.1	66.9	83.1	69.4	70.8	62.1
Maine						
October 1998 .....	58.1	58.4	65.2	60.3	62.3	47.7
September 1998 .....	58.9	55.3	63.8	61.3	61.7	48.5
October 1997 .....	76.9	78.3	81.4	NA	78.3	63.8
Massachusetts						
October 1998 .....	52.3	NA	70.2	NA	59.9	46.4
September 1998 .....	53.4	78.3	69.3	51.0	60.4	45.7
October 1997 .....	68.4	89.0	82.6	66.7	74.5	62.1
New Hampshire						
October 1998 .....	53.1	66.3	65.6	62.8	60.1	45.5
September 1998 .....	52.9	62.7	64.6	61.9	60.1	46.8
October 1997 .....	69.6	80.4	80.4	NA	75.8	60.4
Rhode Island						
October 1998 .....	53.6	NA	66.0	NA	55.1	45.7
September 1998 .....	54.2	NA	63.6	NA	55.2	46.3
October 1997 .....	69.8	70.0	79.4	72.8	70.8	62.1
Vermont						
October 1998 .....	58.9	65.2	67.8	63.0	61.7	50.3
September 1998 .....	58.3	64.3	67.3	62.3	61.1	52.1
October 1997 .....	71.7	79.2	80.7	NA	74.2	67.1
Subdistrict IB						
October 1998 .....	52.0	58.4	59.1	60.7	55.5	45.2
September 1998 .....	52.2	58.0	58.4	61.4	55.4	44.5
October 1997 .....	67.0	72.8	74.0	74.8	70.2	61.1
Delaware						
October 1998 .....	52.6	63.6	59.6	55.3	56.4	44.6
September 1998 .....	52.4	64.8	57.8	54.8	55.8	45.1
October 1997 .....	69.1	79.1	76.0	71.6	71.9	60.4
District of Columbia						
October 1998 .....	48.5	—	W	W	51.8	48.3
September 1998 .....	48.0	—	W	W	50.9	46.2
October 1997 .....	63.8	W	W	W	66.7	64.9
Maryland						
October 1998 .....	54.9	58.4	59.6	58.4	56.7	47.7
September 1998 .....	54.5	57.7	57.7	56.7	55.8	47.3
October 1997 .....	66.8	69.0	73.0	74.3	68.6	62.6
New Jersey						
October 1998 .....	48.9	NA	NA	NA	55.7	44.3
September 1998 .....	50.1	NA	57.6	53.8	55.8	42.6
October 1997 .....	65.6	NA	71.5	66.5	69.2	60.1
New York						
October 1998 .....	53.2	56.1	64.7	66.3	56.2	46.2
September 1998 .....	53.5	56.6	64.7	67.1	56.6	46.5
October 1997 .....	69.2	73.7	80.4	79.4	72.2	63.6

See footnotes at end of table.

**Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
<b>Pennsylvania</b>						
October 1998 .....	50.9	52.8	57.8	59.7	54.6	45.0
September 1998 .....	50.8	52.1	57.1	60.9	54.3	45.0
October 1997 .....	65.4	69.4	73.3	76.0	69.7	60.8
<b>Subdistrict IC</b>						
October 1998 .....	51.5	55.2	57.0	58.3	54.9	45.0
September 1998 .....	51.3	53.8	55.4	56.7	53.7	45.3
October 1997 .....	67.4	69.7	70.9	72.1	69.5	60.7
<b>Virginia</b>						
October 1998 .....	51.4	52.7	53.7	61.5	53.3	45.0
September 1998 .....	52.1	55.3	53.8	60.3	53.6	45.5
October 1997 .....	69.0	65.7	69.4	75.6	69.4	60.9
<b>West Virginia</b>						
October 1998 .....	56.5	55.2	65.5	58.7	60.2	49.7
September 1998 .....	55.2	NA	62.4	57.0	57.8	50.0
October 1997 .....	66.2	69.3	77.7	71.4	71.5	64.4
<b>PAD District II</b>						
October 1998 .....	51.6	56.6	58.1	63.8	57.2	46.5
September 1998 .....	51.2	56.4	57.5	62.9	56.4	46.8
October 1997 .....	65.7	71.3	73.2	79.2	72.1	62.6
<b>Illinois</b>						
October 1998 .....	50.5	57.6	62.4	68.2	58.8	45.1
September 1998 .....	50.1	58.4	62.4	67.5	57.5	44.9
October 1997 .....	66.2	71.5	77.2	80.9	73.8	60.5
<b>Indiana</b>						
October 1998 .....	51.9	55.5	57.1	67.4	56.4	45.6
September 1998 .....	50.3	54.5	56.3	66.1	55.1	45.7
October 1997 .....	66.0	71.5	71.7	81.8	70.8	61.7
<b>Michigan</b>						
October 1998 .....	55.0	57.9	62.0	62.5	58.5	47.3
September 1998 .....	56.5	57.8	60.3	60.7	58.4	48.6
October 1997 .....	67.9	70.8	72.7	76.8	70.6	62.7
<b>Minnesota</b>						
October 1998 .....	56.8	63.1	60.9	64.5	62.2	48.7
September 1998 .....	57.0	63.4	60.5	65.1	62.1	49.4
October 1997 .....	73.5	79.6	78.9	82.5	80.3	66.2
<b>Ohio</b>						
October 1998 .....	51.8	57.2	59.3	61.3	56.4	48.1
September 1998 .....	51.3	55.8	58.1	59.3	55.3	48.0
October 1997 .....	65.2	70.1	73.0	75.1	69.6	63.0
<b>Wisconsin</b>						
October 1998 .....	53.1	60.5	60.7	70.9	59.9	45.9
September 1998 .....	54.1	61.7	59.6	70.5	59.9	46.6
October 1997 .....	67.0	73.0	74.2	79.4	72.9	62.3
<b>PAD District III</b>						
October 1998 .....	47.4	51.8	54.6	55.7	52.2	43.4
September 1998 .....	47.6	52.5	53.9	56.1	51.9	42.6
October 1997 .....	62.7	68.4	69.2	71.1	67.6	59.9
<b>PAD District IV</b>						
October 1998 .....	57.4	63.8	66.0	67.1	63.4	53.8
September 1998 .....	57.2	63.4	65.0	66.1	62.6	52.5
October 1997 .....	73.1	81.0	81.9	85.2	79.7	70.0
<b>Idaho</b>						
October 1998 .....	60.6	68.6	69.0	68.7	67.6	58.1
September 1998 .....	61.4	68.5	69.0	68.7	68.0	57.5
October 1997 .....	78.5	86.9	86.0	88.4	86.0	75.0

See footnotes at end of table.

**Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average	
PAD District V						
October 1998 .....	53.5	55.4	67.7	56.9	58.0	49.6
September 1998 .....	53.4	55.9	68.4	58.4	58.2	50.3
October 1997 .....	71.4	74.9	85.1	78.7	76.2	67.6
Alaska						
October 1998 .....	77.8	54.1	91.9	74.6	73.7	53.7
September 1998 .....	NA	NA	89.2	74.1	NA	53.9
October 1997 .....	97.2	92.1	109.8	93.5	95.1	73.9
Oregon						
October 1998 .....	56.3	58.0	67.7	60.9	59.9	48.0
September 1998 .....	56.3	58.6	67.2	61.2	59.4	49.4
October 1997 .....	73.2	77.1	85.1	80.8	77.4	68.2
Washington						
October 1998 .....	56.1	59.6	68.1	68.4	61.7	48.1
September 1998 .....	53.4	60.3	70.1	68.5	60.3	48.9
October 1997 .....	72.0	76.2	90.6	92.9	78.9	68.9

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.

<sup>b</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

**Table 41. No. 2 Diesel Fuel Prices by Sulfur Content, Sales Type, and PAD District**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Low-Sulfur Diesel Fuel						High-Sulfur Diesel Fuel				
	Sales to End Users					Sales for Resale	Sales to End Users				Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets <sup>a</sup>	Other End Users <sup>b</sup>	Average		Commercial/ Institutional Consumers	Industrial Consumers	Other End Users <sup>b</sup>	Average	
United States											
October 1998 .....	51.4	56.0	58.8	60.5	56.3	46.5	52.1	55.8	61.3	56.0	44.9
September 1998 .....	51.5	55.9	58.1	60.2	55.9	46.6	51.1	55.8	60.4	54.9	44.1
October 1997 .....	67.2	72.3	73.8	77.2	71.9	62.9	66.8	71.1	76.3	70.8	61.0
PAD District I											
October 1998 .....	50.6	56.1	58.7	53.8	54.6	45.4	55.8	57.3	62.5	58.1	43.7
September 1998 .....	50.8	55.2	57.4	54.2	54.2	45.6	55.4	56.3	60.5	57.0	42.4
October 1997 .....	66.4	71.8	72.8	69.2	69.7	61.1	70.1	70.2	74.7	71.3	60.9
Subdistrict IA											
October 1998 .....	55.1	NA	66.7	NA	61.3	46.5	49.6	61.2	68.0	51.9	44.2
September 1998 .....	55.0	71.4	65.7	57.5	60.9	46.5	51.4	59.0	68.3	53.3	46.0
October 1997 .....	70.8	81.8	81.6	NA	74.7	62.5	67.3	77.5	79.6	69.5	60.6
Subdistrict IB											
October 1998 .....	50.8	60.0	59.1	59.2	55.1	45.3	56.6	55.0	62.4	57.3	NA
September 1998 .....	51.3	59.7	58.4	61.0	55.1	45.4	55.9	54.8	61.8	56.7	37.8
October 1997 .....	66.4	74.0	74.0	73.6	70.1	61.2	68.9	70.6	76.0	70.5	59.5
Subdistrict IC											
October 1998 .....	49.4	51.7	57.0	51.7	53.1	45.2	56.2	57.8	62.5	58.7	43.8
September 1998 .....	49.5	50.3	55.4	51.2	52.3	45.5	55.6	56.7	60.2	57.3	44.4
October 1997 .....	65.4	69.3	70.9	66.7	68.3	60.6	71.1	70.0	74.4	71.7	61.4
PAD District II											
October 1998 .....	51.6	55.3	58.1	63.9	57.1	46.5	51.6	57.5	63.8	57.6	46.5
September 1998 .....	51.4	55.3	57.5	62.9	56.4	46.9	50.6	57.2	62.9	56.4	46.6
October 1997 .....	66.0	70.8	73.2	79.6	72.3	62.5	65.1	71.7	78.4	71.6	63.4
PAD District III											
October 1998 .....	49.4	53.0	54.6	55.9	53.3	43.7	44.6	50.1	55.4	49.3	42.0
September 1998 .....	50.0	53.4	53.9	56.5	53.1	43.2	43.9	51.3	55.5	48.7	40.4
October 1997 .....	64.2	69.1	69.2	70.5	68.2	60.6	60.6	67.2	71.9	65.8	57.7
PAD District IV											
October 1998 .....	59.2	63.6	66.0	66.5	64.4	53.6	55.3	64.5	68.7	59.1	56.5
September 1998 .....	59.1	63.4	65.0	66.1	63.6	52.2	54.5	63.2	66.0	58.3	55.5
October 1997 .....	74.9	78.5	81.9	85.3	80.5	69.8	70.5	85.7	84.7	76.8	72.6
PAD District V											
October 1998 .....	52.5	56.2	67.7	57.5	58.2	49.7	57.4	54.4	56.3	57.0	48.5
September 1998 .....	53.0	56.2	68.4	58.8	59.0	50.3	54.4	55.4	58.2	55.8	49.9
October 1997 .....	72.1	76.3	85.1	80.0	77.4	68.2	69.5	71.7	77.7	72.5	65.1

NA = Not available.

<sup>a</sup> Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.

<sup>b</sup> All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

**Table 42. Residual Fuel Oil Prices by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>						
October 1998 .....	33.4	31.4	28.2	27.1	29.7	28.5
September 1998 .....	31.9	29.8	26.3	27.0	27.7	27.9
October 1997 .....	47.9	45.4	43.2	40.4	44.6	42.9
<b>PAD District I</b>						
October 1998 .....	33.0	31.8	29.1	28.0	30.7	29.9
September 1998 .....	31.2	30.5	27.3	29.4	28.7	29.8
October 1997 .....	47.9	47.9	44.8	42.9	46.0	46.5
<b>Subdistrict IA</b>						
October 1998 .....	29.4	28.2	30.6	W	29.9	27.8
September 1998 .....	28.3	30.2	30.5	NA	29.1	NA
October 1997 .....	47.1	49.7	45.8	W	46.5	48.0
<b>Connecticut</b>						
October 1998 .....	39.4	—	—	—	39.4	—
September 1998 .....	40.7	—	—	W	NA	W
October 1997 .....	48.2	52.3	W	—	46.6	52.3
<b>Maine</b>						
October 1998 .....	W	W	29.4	W	29.5	W
September 1998 .....	W	W	29.7	W	30.4	W
October 1997 .....	49.4	47.2	46.7	W	47.8	44.8
<b>Massachusetts</b>						
October 1998 .....	W	W	NA	W	29.8	27.8
September 1998 .....	W	31.0	30.5	W	27.6	NA
October 1997 .....	46.1	NA	W	NA	45.7	NA
<b>New Hampshire</b>						
October 1998 .....	W	—	NA	—	NA	—
September 1998 .....	W	W	32.7	—	33.0	W
October 1997 .....	NA	NA	46.7	—	48.3	NA
<b>Rhode Island</b>						
October 1998 .....	37.2	W	W	—	35.7	W
September 1998 .....	W	W	W	—	34.0	W
October 1997 .....	47.5	W	W	NA	47.6	W
<b>Vermont</b>						
October 1998 .....	W	—	33.1	—	34.2	—
September 1998 .....	W	—	30.0	—	30.3	—
October 1997 .....	49.4	—	W	—	48.6	—
<b>Subdistrict IB</b>						
October 1998 .....	34.6	32.8	26.8	27.3	31.0	30.4
September 1998 .....	32.7	30.9	25.0	NA	28.3	30.4
October 1997 .....	49.9	48.2	43.4	42.5	46.4	46.9
<b>Delaware</b>						
October 1998 .....	33.8	W	26.4	23.6	30.7	23.8
September 1998 .....	33.8	W	28.7	W	29.1	W
October 1997 .....	48.0	W	41.2	W	42.1	W
<b>District of Columbia</b>						
October 1998 .....	W	—	—	—	W	—
September 1998 .....	W	—	—	—	W	—
October 1997 .....	W	—	—	—	W	—
<b>Maryland</b>						
October 1998 .....	31.2	W	30.0	W	30.6	W
September 1998 .....	W	W	26.6	W	28.1	W
October 1997 .....	W	42.8	45.4	W	44.1	42.5
<b>New Jersey</b>						
October 1998 .....	31.4	W	25.1	26.2	28.8	29.3
September 1998 .....	29.4	30.2	24.6	W	27.1	30.1
October 1997 .....	48.2	47.5	44.4	42.5	45.9	46.6
<b>New York</b>						
October 1998 .....	36.3	33.0	NA	NA	32.7	32.7
September 1998 .....	34.7	31.2	24.6	W	28.5	31.1
October 1997 .....	52.0	49.5	44.1	42.8	48.8	48.2
<b>Pennsylvania</b>						
October 1998 .....	37.3	W	NA	28.4	NA	29.5
September 1998 .....	36.0	W	24.6	W	29.2	W
October 1997 .....	51.5	49.4	41.1	44.7	43.8	48.8

See footnotes at end of table.

**Table 42. Residual Fuel Oil Prices by PAD District and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>						
October 1998 .....	32.9	W	30.3	W	30.7	W
September 1998 .....	32.8	W	28.9	25.9	29.1	27.6
October 1997 .....	W	W	45.4	43.7	45.4	45.2
<b>Florida</b>						
October 1998 .....	W	W	29.9	W	30.2	W
September 1998 .....	W	W	28.3	W	28.4	W
October 1997 .....	W	W	44.8	43.5	44.9	44.8
<b>Georgia</b>						
October 1998 .....	—	—	32.3	W	32.3	W
September 1998 .....	—	—	31.4	W	31.4	W
October 1997 .....	—	—	45.1	W	45.1	W
<b>North Carolina</b>						
October 1998 .....	W	—	31.3	29.3	31.9	29.3
September 1998 .....	W	—	29.7	W	30.2	W
October 1997 .....	W	—	46.9	W	47.3	W
<b>South Carolina</b>						
October 1998 .....	W	—	W	—	W	—
September 1998 .....	W	—	W	W	W	W
October 1997 .....	W	—	W	W	W	W
<b>Virginia</b>						
October 1998 .....	31.5	W	29.5	W	30.9	W
September 1998 .....	30.6	W	27.5	W	28.6	W
October 1997 .....	44.3	W	45.1	W	45.0	W
<b>West Virginia</b>						
October 1998 .....	W	W	—	—	W	W
September 1998 .....	W	—	—	—	W	—
October 1997 .....	W	—	W	—	W	—
<b>PAD District II</b>						
October 1998 .....	38.8	34.8	34.9	32.7	36.6	33.0
September 1998 .....	36.9	32.0	36.1	31.6	36.5	31.6
October 1997 .....	46.3	42.6	44.5	39.0	45.4	40.2
<b>Illinois</b>						
October 1998 .....	W	—	W	W	39.0	W
September 1998 .....	39.7	W	W	NA	40.0	W
October 1997 .....	W	W	46.3	W	48.6	34.1
<b>Indiana</b>						
October 1998 .....	41.2	W	32.7	W	32.9	W
September 1998 .....	W	W	35.0	W	35.1	W
October 1997 .....	W	W	44.7	W	44.7	40.4
<b>Iowa</b>						
October 1998 .....	W	—	—	—	W	—
September 1998 .....	W	—	—	—	W	—
October 1997 .....	W	W	—	—	W	W
<b>Kansas</b>						
October 1998 .....	—	—	40.3	W	40.3	W
September 1998 .....	W	—	39.8	19.3	39.8	19.3
October 1997 .....	W	—	46.3	W	45.9	W
<b>Kentucky</b>						
October 1998 .....	W	—	—	W	W	W
September 1998 .....	W	—	—	W	W	W
October 1997 .....	W	—	W	—	W	—
<b>Michigan</b>						
October 1998 .....	40.5	—	39.9	W	40.4	W
September 1998 .....	37.5	W	35.8	W	36.9	W
October 1997 .....	48.5	54.4	46.1	W	47.8	39.1
<b>Minnesota</b>						
October 1998 .....	W	—	W	NA	31.9	NA
September 1998 .....	W	—	W	NA	W	NA
October 1997 .....	—	—	W	W	W	W
<b>Missouri</b>						
October 1998 .....	W	W	—	—	W	W
September 1998 .....	W	—	—	—	W	—
October 1997 .....	W	W	W	—	46.8	W

See footnotes at end of table.

**Table 42. Residual Fuel Oil Prices by PAD District and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>						
October 1998 .....	W	—	—	—	W	—
September 1998 .....	W	—	—	—	W	—
October 1997 .....	W	—	—	—	W	—
<b>North Dakota</b>						
October 1998 .....	—	—	W	—	W	—
September 1998 .....	—	—	W	—	W	—
October 1997 .....	—	—	W	—	W	—
<b>Ohio</b>						
October 1998 .....	W	W	32.9	W	36.9	28.7
September 1998 .....	W	W	33.9	W	37.6	27.3
October 1997 .....	W	—	W	41.6	44.3	41.6
<b>Oklahoma</b>						
October 1998 .....	—	—	W	—	W	—
September 1998 .....	—	—	W	—	W	—
October 1997 .....	—	—	W	W	W	W
<b>South Dakota</b>						
October 1998 .....	W	—	—	—	W	—
September 1998 .....	W	—	—	—	W	—
October 1997 .....	W	—	—	W	W	W
<b>Tennessee</b>						
October 1998 .....	W	W	W	—	W	W
September 1998 .....	W	W	W	—	W	W
October 1997 .....	W	—	W	W	W	W
<b>Wisconsin</b>						
October 1998 .....	NA	W	—	W	NA	W
September 1998 .....	W	W	NA	W	W	W
October 1997 .....	NA	W	W	W	NA	W
<b>PAD District III</b>						
October 1998 .....	—	29.3	NA	25.6	NA	26.0
September 1998 .....	—	25.4	24.8	24.8	24.8	24.9
October 1997 .....	W	41.3	40.9	39.9	40.9	40.4
<b>Alabama</b>						
October 1998 .....	—	W	NA	W	NA	W
September 1998 .....	—	W	NA	NA	NA	W
October 1997 .....	W	W	NA	NA	NA	W
<b>Arkansas</b>						
October 1998 .....	—	—	—	—	—	—
September 1998 .....	—	—	W	—	W	—
October 1997 .....	—	—	W	—	W	—
<b>Louisiana</b>						
October 1998 .....	—	W	NA	24.5	NA	24.8
September 1998 .....	—	W	23.7	24.4	23.7	24.9
October 1997 .....	W	46.9	39.6	39.1	39.6	40.5
<b>Mississippi</b>						
October 1998 .....	—	W	NA	W	NA	W
September 1998 .....	—	W	NA	W	NA	W
October 1997 .....	—	W	NA	W	NA	W
<b>New Mexico</b>						
October 1998 .....	—	W	—	—	—	W
September 1998 .....	—	—	—	—	—	—
October 1997 .....	—	W	—	—	—	W
<b>Texas</b>						
October 1998 .....	—	W	25.8	26.1	25.8	26.7
September 1998 .....	—	22.4	24.3	24.7	24.3	24.3
October 1997 .....	W	40.0	40.1	40.8	40.1	40.4
<b>PAD District IV</b>						
October 1998 .....	W	W	W	W	W	21.0
September 1998 .....	W	W	W	W	28.9	W
October 1997 .....	—	28.1	28.2	W	28.2	22.8
<b>Colorado</b>						
October 1998 .....	—	—	—	—	—	—
September 1998 .....	W	W	—	—	W	W
October 1997 .....	—	—	—	—	—	—

See footnotes at end of table.

**Table 42. Residual Fuel Oil Prices by PAD District and State**

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>						
October 1998 .....	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—
October 1997 .....	—	—	W	—	W	—
<b>Montana</b>						
October 1998 .....	—	—	W	W	W	W
September 1998 .....	—	—	W	NA	W	NA
October 1997 .....	—	—	NA	NA	NA	NA
<b>Utah</b>						
October 1998 .....	W	W	—	W	W	W
September 1998 .....	W	W	—	—	W	W
October 1997 .....	—	W	W	—	W	W
<b>Wyoming</b>						
October 1998 .....	—	W	—	W	—	W
September 1998 .....	—	W	W	W	W	20.8
October 1997 .....	—	W	W	W	W	21.7
<b>PAD District V</b>						
October 1998 .....	34.6	31.2	NA	NA	30.0	30.3
September 1998 .....	33.6	33.5	25.7	27.6	27.4	29.1
October 1997 .....	W	36.6	42.0	NA	43.7	NA
<b>Alaska</b>						
October 1998 .....	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—
<b>Arizona</b>						
October 1998 .....	—	W	—	—	—	W
September 1998 .....	—	W	—	—	—	W
October 1997 .....	W	—	—	—	W	—
<b>California</b>						
October 1998 .....	W	30.9	NA	31.8	NA	31.4
September 1998 .....	W	33.4	25.3	30.1	25.3	31.4
October 1997 .....	W	35.0	42.2	40.9	42.2	38.9
<b>Hawaii</b>						
October 1998 .....	W	—	32.1	W	34.1	W
September 1998 .....	W	—	31.9	W	33.2	W
October 1997 .....	W	—	49.6	W	48.9	W
<b>Nevada</b>						
October 1998 .....	NA	W	NA	—	NA	W
September 1998 .....	—	W	—	—	—	W
October 1997 .....	—	W	W	—	W	W
<b>Oregon</b>						
October 1998 .....	NA	NA	30.2	W	30.8	NA
September 1998 .....	W	—	26.6	W	27.2	W
October 1997 .....	—	NA	43.3	45.4	43.3	NA
<b>Washington</b>						
October 1998 .....	NA	—	NA	NA	NA	NA
September 1998 .....	—	—	24.9	23.5	24.9	23.5
October 1997 .....	—	NA	40.3	NA	40.3	NA

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."





# Volumes of Petroleum Products

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
October 1998 .....	42,616.7	44,174.5	45,212.0	141,657.3	31,790.6	218,659.8	10,575.9	10,743.5	11,235.4	16,708.7	NA	27,961.5
September 1998 .....	42,795.2	44,317.9	43,814.8	140,634.0	32,922.3	217,371.0	10,377.3	10,556.9	W	16,437.0	W	27,343.6
October 1997 .....	43,172.1	44,984.5	45,825.7	140,586.8	35,356.1	221,768.5	10,075.7	10,348.0	W	16,798.5	W	28,627.5
<b>PAD District I</b>												
October 1998 .....	10,320.2	10,837.1	16,426.7	43,180.6	5,293.6	64,900.9	2,909.0	2,990.3	4,204.0	6,327.0	—	10,531.0
September 1998 .....	10,049.0	10,543.6	15,776.7	43,085.0	7,456.5	66,318.2	2,800.5	2,882.3	4,074.6	6,314.2	—	10,388.8
October 1997 .....	10,152.6	10,786.3	16,496.0	44,137.5	6,843.4	67,477.0	2,749.4	2,852.5	4,524.6	6,760.7	—	11,285.4
<b>Subdistrict IA</b>												
October 1998 .....	474.0	482.7	W	4,432.1	W	8,029.0	135.7	136.1	627.9	467.9	—	1,095.8
September 1998 .....	473.3	480.8	W	4,508.5	W	7,620.9	135.6	136.2	W	W	—	1,100.0
October 1997 .....	457.8	467.0	W	4,861.4	W	8,571.9	129.8	130.1	662.8	574.4	—	1,237.2
<b>Connecticut</b>												
October 1998 .....	W	W	843.8	W	W	2,188.4	W	W	193.2	133.6	—	326.8
September 1998 .....	W	W	830.8	1,187.0	NA	2,032.2	W	W	W	W	—	328.5
October 1997 .....	W	89.1	W	1,235.7	W	2,527.7	W	W	W	W	—	346.7
<b>Maine</b>												
October 1998 .....	—	—	W	897.8	W	1,241.3	—	—	W	W	—	97.3
September 1998 .....	—	—	W	W	—	1,023.1	—	—	W	W	—	111.4
October 1997 .....	—	—	W	W	—	1,158.9	—	—	W	W	—	136.3
<b>Massachusetts</b>												
October 1998 .....	270.7	274.0	W	1,541.5	W	3,304.9	81.2	81.5	W	W	—	486.1
September 1998 .....	271.9	274.2	1,478.8	W	W	3,206.3	81.7	82.0	W	W	—	472.0
October 1997 .....	259.7	262.7	W	1,689.8	W	3,567.2	77.4	77.4	W	W	—	546.9
<b>New Hampshire</b>												
October 1998 .....	66.8	66.8	177.0	119.3	—	296.3	16.8	16.8	W	W	—	50.1
September 1998 .....	64.8	64.8	173.8	138.9	—	312.7	16.2	16.2	35.5	9.7	—	45.2
October 1997 .....	67.3	67.3	190.4	44.4	—	234.7	16.8	16.8	42.8	5.9	—	48.7
<b>Rhode Island</b>												
October 1998 .....	W	W	283.4	526.1	—	809.5	W	W	58.4	52.0	—	110.5
September 1998 .....	W	W	273.8	589.1	—	862.9	W	W	56.3	60.9	—	117.2
October 1997 .....	W	48.0	262.5	622.1	—	884.6	W	W	58.0	72.3	—	130.3
<b>Vermont</b>												
October 1998 .....	—	—	W	W	—	188.6	—	—	W	W	—	25.0
September 1998 .....	—	—	W	W	—	183.7	—	—	W	W	—	25.6
October 1997 .....	—	—	W	W	—	198.8	—	—	W	W	—	28.4
<b>Subdistrict IB</b>												
October 1998 .....	3,531.2	3,649.1	W	13,161.2	W	26,939.2	890.4	905.8	2,138.8	1,450.7	—	3,589.5
September 1998 .....	3,486.3	3,600.1	W	13,089.2	W	28,863.1	863.2	878.4	W	W	—	3,603.1
October 1997 .....	3,533.8	3,700.0	W	13,148.5	W	28,474.0	868.9	894.6	2,346.9	1,593.0	—	3,939.8
<b>Delaware</b>												
October 1998 .....	21.7	32.4	W	W	—	582.5	6.8	6.8	49.3	58.7	—	108.0
September 1998 .....	21.8	33.0	W	W	—	599.2	6.5	6.6	W	W	—	111.2
October 1997 .....	W	27.8	W	W	—	537.7	W	W	56.5	63.3	—	119.9
<b>District of Columbia</b>												
October 1998 .....	—	6.7	110.7	—	—	110.7	—	W	NA	—	—	NA
September 1998 .....	—	W	110.6	—	—	110.6	—	W	NA	—	—	NA
October 1997 .....	—	8.9	130.5	—	—	130.5	—	W	81.3	—	—	81.3
<b>Maryland</b>												
October 1998 .....	—	28.7	1,688.7	1,479.2	—	3,167.9	—	W	524.9	260.0	—	784.9
September 1998 .....	—	W	1,617.7	1,450.8	—	3,068.5	—	W	522.7	267.8	—	790.5
October 1997 .....	W	33.8	1,785.2	1,549.2	—	3,334.4	W	6.0	W	W	—	901.1
<b>New Jersey</b>												
October 1998 .....	789.7	808.6	2,559.7	2,191.3	3,264.8	8,015.8	206.2	209.2	556.6	297.8	—	854.4
September 1998 .....	798.9	817.4	2,491.9	2,250.4	5,368.7	10,111.0	205.9	209.2	544.9	325.5	—	870.4
October 1997 .....	801.0	840.7	2,559.1	2,142.3	4,195.2	8,896.6	207.0	216.6	602.1	295.5	—	897.6
<b>New York</b>												
October 1998 .....	1,383.8	1,413.5	2,730.6	4,169.1	323.2	7,223.0	263.8	268.0	593.4	248.5	—	841.9
September 1998 .....	1,352.1	1,381.6	2,675.9	4,124.1	NA	7,095.6	252.1	256.9	586.4	257.1	—	843.4
October 1997 .....	1,328.1	1,370.8	2,769.2	4,205.6	680.5	7,655.4	252.0	257.3	634.2	251.3	—	885.5
<b>Pennsylvania</b>												
October 1998 .....	1,336.0	1,359.2	2,066.5	W	W	7,839.3	413.6	414.8	345.0	585.6	—	930.6
September 1998 .....	1,313.5	1,334.8	1,939.1	W	W	7,878.4	398.6	399.1	325.8	592.1	—	917.8
October 1997 .....	1,380.4	1,418.0	1,963.8	W	W	7,919.5	402.3	405.5	W	W	—	1,054.4

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
October 1998 .....	9,953.5	10,217.5	17,899.7	31,815.0	4,499.8	54,214.5	63,146.1	65,135.5	74,347.1	190,180.9	36,307.8	300,835.8
September 1998 .....	9,990.0	10,294.9	W	32,121.0	W	54,520.6	63,162.5	65,169.7	72,285.4	189,192.0	37,757.8	299,235.2
October 1997 .....	8,721.2	9,022.7	W	28,175.5	W	49,176.3	61,968.9	64,355.2	73,861.0	185,560.8	40,150.5	299,572.4
<b>PAD District I</b>												
October 1998 .....	3,456.6	3,561.3	9,077.4	12,670.5	1,591.4	23,339.2	16,685.8	17,388.7	29,708.1	62,178.0	6,885.0	98,771.1
September 1998 .....	3,416.5	3,526.9	8,930.6	12,773.4	1,405.5	23,109.5	16,265.9	16,952.8	28,782.0	62,172.5	8,862.0	99,816.6
October 1997 .....	2,892.6	3,036.7	8,438.6	11,377.5	1,791.9	21,608.0	15,794.7	16,675.5	29,459.3	62,275.7	8,635.4	100,370.4
<b>Subdistrict 1A</b>												
October 1998 .....	163.9	164.0	W	1,078.4	W	2,237.8	773.6	782.8	4,531.7	5,978.4	852.6	11,362.6
September 1998 .....	166.0	166.1	997.3	W	W	2,227.3	774.9	783.0	W	6,116.6	W	10,948.2
October 1997 .....	135.1	135.1	W	1,056.0	W	2,163.0	722.8	732.3	4,508.5	6,491.7	971.8	11,972.0
<b>Connecticut</b>												
October 1998 .....	W	W	325.3	W	W	814.4	W	W	1,362.3	W	W	3,329.7
September 1998 .....	W	W	326.2	W	W	754.9	W	W	W	1,660.8	W	3,115.6
October 1997 .....	W	W	288.5	W	W	745.7	W	W	W	1,674.8	W	3,620.1
<b>Maine</b>												
October 1998 .....	—	—	W	W	—	174.3	—	—	W	1,151.2	W	1,512.9
September 1998 .....	—	—	W	W	—	199.3	—	—	W	W	—	1,333.9
October 1997 .....	—	—	W	W	—	190.1	—	—	W	W	—	1,485.2
<b>Massachusetts</b>												
October 1998 .....	92.7	92.7	516.9	397.6	—	914.5	444.6	448.1	2,352.9	W	W	4,705.6
September 1998 .....	94.5	94.5	W	385.2	W	920.7	448.0	450.6	2,303.1	W	W	4,599.1
October 1997 .....	75.4	75.4	W	392.9	W	906.3	412.5	415.4	2,364.3	W	W	5,020.3
<b>New Hampshire</b>												
October 1998 .....	19.0	19.0	W	W	—	66.0	102.5	102.5	258.7	153.6	—	412.4
September 1998 .....	19.0	19.0	45.8	17.7	—	63.5	100.0	100.0	255.1	166.3	—	421.4
October 1997 .....	16.5	16.5	44.6	6.4	—	51.0	100.5	100.5	277.7	56.6	—	334.4
<b>Rhode Island</b>												
October 1998 .....	W	W	90.0	136.7	—	226.7	W	W	431.8	714.8	—	1,146.6
September 1998 .....	W	W	89.8	157.7	—	247.5	W	W	420.0	807.6	—	1,227.6
October 1997 .....	W	W	79.5	151.0	—	230.5	W	W	400.1	845.3	—	1,245.4
<b>Vermont</b>												
October 1998 .....	—	—	W	W	—	41.9	—	—	W	W	—	255.5
September 1998 .....	—	—	W	W	—	41.4	—	—	W	W	—	250.7
October 1997 .....	—	—	W	W	—	39.5	—	—	W	W	—	266.6
<b>Subdistrict 1B</b>												
October 1998 .....	1,157.7	1,176.5	W	3,539.8	W	10,392.5	5,579.3	5,731.4	17,011.1	18,151.7	5,758.5	40,921.3
September 1998 .....	1,164.9	1,185.1	5,427.0	W	W	10,199.2	5,514.3	5,663.6	W	18,202.6	W	42,665.4
October 1997 .....	1,020.7	1,070.0	W	3,170.7	W	9,710.3	5,423.5	5,664.6	16,924.1	17,912.1	7,288.0	42,124.2
<b>Delaware</b>												
October 1998 .....	6.7	8.0	W	W	—	151.6	35.2	47.1	331.4	510.7	—	842.1
September 1998 .....	6.7	8.1	59.8	94.2	—	154.0	35.0	47.6	W	W	—	864.4
October 1997 .....	W	W	W	W	—	131.6	W	41.7	336.5	452.7	—	789.2
<b>District of Columbia</b>												
October 1998 .....	—	W	NA	—	—	NA	—	10.0	NA	—	—	NA
September 1998 .....	—	W	NA	—	—	NA	—	W	335.4	—	—	335.4
October 1997 .....	—	W	155.2	—	—	155.2	—	13.1	367.0	—	—	367.0
<b>Maryland</b>												
October 1998 .....	—	W	849.3	456.6	—	1,305.9	—	40.3	3,062.9	2,195.9	—	5,258.8
September 1998 .....	—	W	843.5	W	W	1,336.6	—	W	2,983.8	W	W	5,195.6
October 1997 .....	W	5.7	W	W	W	1,254.0	W	45.5	3,212.1	W	W	5,489.5
<b>New Jersey</b>												
October 1998 .....	366.7	370.4	1,597.1	872.5	570.5	3,040.1	1,362.6	1,388.2	4,713.4	3,361.6	3,835.3	11,910.3
September 1998 .....	373.8	379.3	1,585.2	871.9	716.5	3,173.7	1,378.6	1,406.0	4,622.1	3,447.8	6,085.2	14,155.0
October 1997 .....	328.1	344.6	1,494.5	782.3	619.7	2,896.5	1,336.1	1,401.9	4,655.7	3,220.1	4,814.9	12,690.8
<b>New York</b>												
October 1998 .....	417.3	420.8	2,094.4	986.2	492.5	3,573.2	2,064.9	2,102.3	5,418.5	5,403.9	815.7	11,638.1
September 1998 .....	416.6	420.5	2,074.6	1,024.1	160.7	3,259.4	2,020.7	2,058.9	5,336.8	5,405.3	456.2	11,198.4
October 1997 .....	361.2	382.2	1,946.6	873.8	589.5	3,410.0	1,941.3	2,010.3	5,350.0	5,330.8	1,270.0	11,950.8
<b>Pennsylvania</b>												
October 1998 .....	367.0	369.3	738.5	W	W	2,167.2	2,116.6	2,143.4	3,150.1	6,679.6	1,107.4	10,937.1
September 1998 .....	367.9	369.2	708.8	W	W	2,120.4	2,080.0	2,103.1	2,973.7	6,619.7	1,323.2	10,916.6
October 1997 .....	325.4	328.5	W	1,022.6	W	1,862.9	2,108.1	2,152.0	3,002.7	W	W	10,836.9

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
October 1998 .....	6,315.0	6,705.3	W	25,587.3	W	29,932.7	1,882.9	1,948.4	1,437.3	4,408.4	—	5,845.7
September 1998 .....	6,089.4	6,462.7	3,891.9	25,487.3	NA	29,834.2	1,801.7	1,867.8	1,376.1	4,309.5	—	5,685.7
October 1997 .....	6,161.1	6,619.2	4,130.3	26,127.7	173.1	30,431.1	1,750.6	1,827.8	1,515.0	4,593.4	—	6,108.4
<b>Florida</b>												
October 1998 .....	2,860.9	2,997.7	2,309.8	6,148.5	NA	8,490.8	850.8	874.0	W	W	—	1,966.8
September 1998 .....	2,673.3	2,795.1	W	5,939.7	W	8,191.9	799.8	825.2	767.7	1,129.7	—	1,897.4
October 1997 .....	2,732.6	2,893.8	W	6,208.1	W	8,433.2	789.0	820.8	W	W	—	2,018.9
<b>Georgia</b>												
October 1998 .....	1,264.4	1,330.5	527.6	5,506.5	—	6,034.1	416.5	436.7	222.6	757.6	—	980.2
September 1998 .....	1,238.5	1,305.6	W	5,408.6	W	5,931.9	400.4	419.7	W	W	—	940.8
October 1997 .....	1,225.3	1,313.0	531.4	5,670.5	—	6,201.8	372.5	391.8	226.9	788.7	—	1,015.6
<b>North Carolina</b>												
October 1998 .....	518.5	616.0	W	W	—	6,427.4	158.3	161.5	W	W	—	1,224.9
September 1998 .....	517.1	613.8	W	W	—	6,517.4	155.5	158.7	W	W	—	1,205.8
October 1997 .....	532.4	640.3	70.4	6,505.2	—	6,575.6	152.4	158.5	25.3	1,303.6	—	1,329.0
<b>South Carolina</b>												
October 1998 .....	561.3	603.2	W	W	—	3,119.5	156.0	162.7	W	W	—	514.4
September 1998 .....	557.1	597.3	W	W	—	3,197.9	151.4	159.1	W	W	—	492.9
October 1997 .....	594.9	633.5	W	W	—	3,170.9	147.5	150.6	W	W	—	506.1
<b>Virginia</b>												
October 1998 .....	670.8	709.5	1,136.1	W	W	5,545.7	193.0	202.8	W	W	—	1,094.2
September 1998 .....	674.3	713.0	1,123.6	W	W	5,659.1	188.8	197.1	W	W	—	1,090.5
October 1997 .....	655.8	705.9	1,199.1	W	W	5,600.6	180.8	194.5	W	W	—	1,165.5
<b>West Virginia</b>												
October 1998 .....	439.1	448.4	W	W	—	315.1	108.4	110.6	W	W	—	65.2
September 1998 .....	429.2	437.8	W	W	—	336.0	105.8	107.9	W	W	—	58.3
October 1997 .....	420.1	432.8	106.7	342.2	—	448.9	108.4	111.5	W	W	—	73.3
<b>PAD District II</b>												
October 1998 .....	14,295.7	14,803.4	7,221.0	52,425.8	5,481.2	65,128.0	3,163.0	3,196.2	1,886.4	4,795.7	—	6,682.1
September 1998 .....	14,181.9	14,648.6	7,046.9	52,303.2	5,980.3	65,330.5	2,925.9	2,962.9	1,847.3	4,682.7	—	6,530.0
October 1997 .....	15,295.7	15,821.2	10,108.2	52,251.1	6,786.7	69,146.0	3,078.5	3,116.5	2,291.1	4,305.7	—	6,596.7
<b>Illinois</b>												
October 1998 .....	2,149.4	2,161.5	W	5,164.3	W	8,124.7	602.8	603.4	582.5	587.9	—	1,170.4
September 1998 .....	2,135.7	2,149.1	W	5,128.1	W	7,988.0	512.1	512.7	567.1	526.8	—	1,093.9
October 1997 .....	2,269.0	2,290.6	W	5,173.5	W	8,803.2	519.7	520.1	640.8	411.9	—	1,052.6
<b>Indiana</b>												
October 1998 .....	1,198.4	1,219.3	601.7	4,047.7	313.7	4,963.1	296.1	296.1	151.5	484.7	—	636.3
September 1998 .....	1,178.4	1,195.9	W	4,075.5	W	5,003.9	253.2	253.6	149.0	480.5	—	629.5
October 1997 .....	1,218.5	1,238.3	1,100.0	3,631.1	382.6	5,113.7	261.8	262.0	204.2	513.9	—	718.1
<b>Iowa</b>												
October 1998 .....	W	127.4	NA	2,962.0	—	3,030.2	W	W	NA	354.6	—	376.6
September 1998 .....	W	W	NA	3,001.2	—	3,067.0	W	W	W	W	—	361.1
October 1997 .....	190.6	194.9	W	W	—	3,188.4	5.8	5.8	W	W	—	310.5
<b>Kansas</b>												
October 1998 .....	453.0	473.0	NA	W	W	3,031.3	51.8	52.6	W	W	—	NA
September 1998 .....	452.1	465.9	NA	W	W	3,057.0	50.8	51.1	W	W	—	66.4
October 1997 .....	480.8	498.3	W	W	719.2	3,541.8	49.0	49.0	W	W	—	56.0
<b>Kentucky</b>												
October 1998 .....	555.8	609.6	132.0	W	W	3,279.9	133.4	136.0	W	W	—	445.6
September 1998 .....	549.6	594.0	128.8	W	W	3,198.6	130.1	133.4	W	W	—	429.8
October 1997 .....	571.2	612.7	349.6	2,884.4	—	3,234.0	140.4	141.8	49.3	354.5	—	403.8
<b>Michigan</b>												
October 1998 .....	2,400.9	2,519.0	1,698.5	5,641.8	—	7,340.3	415.9	418.3	385.1	282.7	—	667.9
September 1998 .....	2,353.6	2,468.5	1,646.8	5,728.7	—	7,375.6	368.6	372.0	378.7	299.9	—	678.6
October 1997 .....	2,537.4	2,672.3	2,620.6	5,623.5	—	8,244.2	373.8	376.5	491.9	251.8	—	743.6
<b>Minnesota</b>												
October 1998 .....	854.1	869.5	W	3,351.2	W	4,068.5	154.8	154.8	W	W	—	618.5
September 1998 .....	841.5	850.3	W	3,353.0	W	3,999.2	148.8	148.8	W	W	—	619.9
October 1997 .....	953.5	973.8	W	3,677.2	W	4,372.1	140.1	140.3	W	W	—	500.4
<b>Missouri</b>												
October 1998 .....	643.9	661.7	NA	4,014.0	—	4,340.9	128.7	129.3	NA	115.5	—	212.4
September 1998 .....	631.6	648.1	322.9	3,978.5	—	4,301.4	122.0	122.6	NA	110.0	—	204.7
October 1997 .....	754.0	773.1	433.3	3,936.4	—	4,369.6	128.3	128.6	115.8	71.6	—	187.5

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
October 1998 .....	2,135.0	2,220.8	W	8,052.3	W	10,708.8	10,332.9	10,874.5	8,165.3	38,048.0	NA	46,487.2
September 1998 .....	2,085.6	2,175.7	2,506.4	8,056.5	120.2	10,683.0	9,976.7	10,506.2	7,774.4	37,853.3	575.2	46,202.9
October 1997 .....	1,736.7	1,831.5	2,381.4	7,150.8	202.5	9,734.7	9,648.5	10,278.5	8,026.7	37,871.9	375.6	46,274.2
<b>Florida</b>												
October 1998 .....	1,145.0	1,168.8	1,573.2	W	W	3,596.7	4,856.7	5,040.5	W	9,271.6	W	14,054.3
September 1998 .....	1,097.0	1,121.9	W	1,902.4	W	3,470.4	4,570.0	4,742.3	4,392.0	8,971.8	195.8	13,559.7
October 1997 .....	908.0	937.0	1,432.1	W	W	3,303.3	4,429.6	4,651.6	W	9,167.6	W	13,755.3
<b>Georgia</b>												
October 1998 .....	400.7	423.5	NA	1,651.8	—	1,937.9	2,081.6	2,190.7	1,036.2	7,915.9	—	8,952.2
September 1998 .....	401.4	424.8	W	W	—	1,914.1	2,040.3	2,150.1	W	7,783.1	W	8,786.8
October 1997 .....	325.3	349.3	263.8	1,501.4	—	1,765.2	1,923.2	2,054.1	1,022.1	7,960.5	—	8,982.6
<b>North Carolina</b>												
October 1998 .....	149.6	165.9	W	W	—	2,129.1	826.4	943.3	W	W	—	9,781.4
September 1998 .....	148.5	165.4	W	W	—	2,169.2	821.1	937.9	W	W	—	9,892.4
October 1997 .....	130.3	147.6	25.1	1,849.1	—	1,874.2	815.0	946.4	120.8	9,658.0	—	9,778.8
<b>South Carolina</b>												
October 1998 .....	135.8	145.4	W	W	—	946.1	853.1	911.3	W	W	—	4,580.0
September 1998 .....	136.9	149.0	W	W	—	950.1	845.3	905.4	W	W	—	4,640.9
October 1997 .....	120.5	130.5	W	W	—	790.0	862.9	914.6	W	W	—	4,467.1
<b>Virginia</b>												
October 1998 .....	237.2	249.0	W	1,326.3	W	2,014.5	1,101.0	1,161.4	W	6,295.2	W	8,654.4
September 1998 .....	236.0	246.9	W	1,361.6	W	2,097.8	1,099.1	1,157.0	W	6,344.8	W	8,847.4
October 1997 .....	192.9	205.2	W	1,176.1	W	1,909.1	1,029.5	1,105.5	W	6,232.3	W	8,675.2
<b>West Virginia</b>												
October 1998 .....	66.6	68.3	W	W	—	84.5	614.1	627.3	W	W	—	464.9
September 1998 .....	65.9	67.7	W	W	—	81.4	600.8	613.4	W	W	—	475.7
October 1997 .....	59.7	62.1	11.5	81.5	—	93.0	588.2	606.4	W	W	—	615.2
<b>PAD District II</b>												
October 1998 .....	2,526.1	2,602.8	2,187.4	8,997.5	346.7	11,531.6	19,984.8	20,602.3	11,294.7	66,219.1	5,827.9	83,341.7
September 1998 .....	2,457.8	2,532.3	2,153.5	9,220.6	337.1	11,711.2	19,565.5	20,143.8	11,047.7	66,206.5	6,317.4	83,571.6
October 1997 .....	2,472.0	2,544.9	2,586.8	8,014.3	387.0	10,988.0	20,846.2	21,482.6	14,986.1	64,571.0	7,173.6	86,730.7
<b>Illinois</b>												
October 1998 .....	520.3	525.8	W	909.6	W	1,733.8	3,272.5	3,290.7	2,784.2	6,661.8	1,582.9	11,028.9
September 1998 .....	480.4	485.6	W	866.4	W	1,593.2	3,128.3	3,147.5	2,722.2	6,521.3	1,431.6	10,675.0
October 1997 .....	503.0	505.7	W	796.2	W	1,597.5	3,291.7	3,316.4	3,253.6	6,381.6	1,818.1	11,453.3
<b>Indiana</b>												
October 1998 .....	224.1	224.5	191.0	783.9	—	975.0	1,718.6	1,739.8	944.3	5,316.4	313.7	6,574.3
September 1998 .....	204.5	204.7	W	805.2	W	1,032.3	1,636.1	1,654.3	941.3	5,361.2	363.2	6,665.8
October 1997 .....	244.6	244.8	262.4	633.8	—	896.2	1,725.0	1,745.1	1,566.5	4,778.8	382.6	6,728.0
<b>Iowa</b>												
October 1998 .....	13.0	W	NA	207.8	—	221.8	143.8	146.4	NA	3,524.4	—	3,628.6
September 1998 .....	13.2	13.4	W	W	—	234.0	143.2	145.2	NA	3,561.5	—	3,662.1
October 1997 .....	17.0	17.1	W	W	—	283.7	213.4	217.7	W	W	—	3,782.5
<b>Kansas</b>												
October 1998 .....	58.1	59.8	W	253.5	W	291.6	562.9	585.5	W	2,663.6	W	3,387.5
September 1998 .....	59.2	60.5	NA	W	W	353.6	562.2	577.6	W	2,749.2	W	3,477.0
October 1997 .....	53.3	54.4	W	249.6	W	356.3	583.2	601.7	W	2,982.0	W	3,954.1
<b>Kentucky</b>												
October 1998 .....	103.1	109.5	40.4	756.1	—	796.5	792.4	855.1	W	4,180.3	W	4,521.9
September 1998 .....	103.0	110.4	38.5	765.5	—	804.0	782.6	837.8	W	4,182.6	W	4,432.4
October 1997 .....	102.2	107.5	88.1	672.3	—	760.5	813.7	862.1	487.0	3,911.3	—	4,398.3
<b>Michigan</b>												
October 1998 .....	288.3	313.5	418.1	950.5	—	1,368.7	3,105.1	3,250.8	2,501.8	6,875.1	—	9,376.9
September 1998 .....	285.0	308.4	415.4	1,014.0	—	1,429.4	3,007.2	3,148.8	2,440.9	7,042.6	—	9,483.5
October 1997 .....	285.6	313.3	526.1	852.6	—	1,378.7	3,196.8	3,362.1	3,638.6	6,727.9	—	10,366.5
<b>Minnesota</b>												
October 1998 .....	101.1	101.1	W	W	W	526.4	1,109.9	1,125.3	W	4,301.7	W	5,213.4
September 1998 .....	101.8	101.8	W	W	W	548.0	1,092.1	1,100.9	W	4,327.3	W	5,167.1
October 1997 .....	96.7	97.0	W	W	W	451.2	1,190.3	1,211.0	W	4,493.7	W	5,323.7
<b>Missouri</b>												
October 1998 .....	103.3	103.8	NA	605.1	—	700.4	875.9	894.8	NA	4,734.6	—	5,253.7
September 1998 .....	99.7	100.2	93.2	610.8	—	704.1	853.3	871.0	510.8	4,699.3	—	5,210.2
October 1997 .....	103.6	106.0	110.5	518.5	—	628.9	985.9	1,007.7	659.6	4,526.5	—	5,186.0

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
October 1998 .....	47.9	49.8	NA	1,665.9	—	1,760.1	W	W	NA	88.9	—	105.4
September 1998 .....	50.8	52.7	NA	1,668.2	—	1,759.0	W	W	NA	87.7	—	103.7
October 1997 .....	105.5	107.2	114.4	1,775.8	—	1,890.2	W	W	W	W	—	74.7
<b>North Dakota</b>												
October 1998 .....	W	3.7	NA	862.3	—	909.5	W	W	NA	34.7	—	NA
September 1998 .....	W	W	NA	865.7	—	911.7	W	W	NA	33.5	—	NA
October 1997 .....	W	W	W	W	—	972.4	—	—	W	W	—	W
<b>Ohio</b>												
October 1998 .....	3,627.7	3,803.2	1,744.5	W	W	7,237.5	894.3	919.6	W	W	—	854.9
September 1998 .....	3,655.5	3,822.6	W	5,046.5	W	6,901.7	866.6	894.5	W	W	—	841.4
October 1997 .....	3,845.8	4,041.3	W	4,584.7	W	7,169.7	921.0	952.4	W	W	—	883.8
<b>Oklahoma</b>												
October 1998 .....	654.1	680.7	NA	2,731.9	2,532.3	5,314.1	124.7	124.8	NA	34.1	—	37.4
September 1998 .....	645.7	672.6	W	2,682.9	W	6,024.6	119.9	119.9	W	W	—	44.3
October 1997 .....	723.4	735.5	W	W	3,204.5	6,171.6	123.6	123.9	W	W	—	65.6
<b>South Dakota</b>												
October 1998 .....	8.2	9.2	NA	1,025.8	—	1,051.8	W	W	NA	60.5	—	68.2
September 1998 .....	7.8	8.6	24.8	934.0	—	958.8	W	W	NA	58.1	—	65.6
October 1997 .....	W	W	33.4	1,056.4	—	1,089.7	W	W	W	31.5	—	W
<b>Tennessee</b>												
October 1998 .....	979.8	1,013.2	123.9	5,480.4	—	5,604.2	259.7	260.4	63.5	990.0	—	1,053.4
September 1998 .....	974.7	1,005.1	116.7	5,613.6	—	5,730.3	260.9	261.4	61.4	972.8	—	1,034.2
October 1997 .....	964.6	991.4	274.4	5,623.2	—	5,897.6	329.2	330.4	99.7	1,077.6	—	1,177.4
<b>Wisconsin</b>												
October 1998 .....	594.5	602.6	W	4,757.5	W	5,072.1	88.6	88.6	W	W	—	323.8
September 1998 .....	578.0	586.3	W	4,776.2	W	5,053.8	81.0	81.1	W	W	—	311.9
October 1997 .....	663.1	670.5	392.9	W	W	5,087.7	83.9	83.9	W	W	—	352.4
<b>PAD District III</b>												
October 1998 .....	6,399.1	6,584.9	1,560.3	28,836.0	14,752.0	45,148.4	1,711.6	1,730.7	477.1	3,671.6	—	4,148.7
September 1998 .....	6,406.2	6,596.1	1,668.1	27,580.4	14,122.9	43,371.4	1,714.1	1,733.9	488.6	3,502.6	—	3,991.2
October 1997 .....	6,507.0	6,838.0	1,775.0	27,663.9	16,113.8	45,552.7	1,694.0	1,717.5	557.5	3,893.2	—	4,450.7
<b>Alabama</b>												
October 1998 .....	243.0	275.4	84.1	3,638.1	—	3,722.2	73.0	79.3	30.5	683.7	—	714.2
September 1998 .....	243.2	270.5	77.0	3,541.3	—	3,618.2	72.0	76.9	28.0	570.7	—	598.6
October 1997 .....	261.2	290.1	84.8	3,515.8	—	3,600.6	81.2	87.7	33.0	665.2	—	698.1
<b>Arkansas</b>												
October 1998 .....	158.9	161.5	W	2,542.7	W	2,747.1	32.7	32.7	W	W	—	319.3
September 1998 .....	168.1	170.9	W	2,577.3	W	2,732.9	33.4	33.4	W	W	—	321.4
October 1997 .....	199.5	203.6	W	2,812.9	W	2,974.0	44.3	44.5	W	W	—	344.7
<b>Louisiana</b>												
October 1998 .....	730.6	747.8	219.8	3,018.7	869.7	4,108.3	221.2	221.6	89.2	472.2	—	561.4
September 1998 .....	685.5	701.6	204.8	2,898.8	1,143.2	4,246.8	216.5	216.9	84.1	506.3	—	590.4
October 1997 .....	711.4	715.9	237.9	2,832.1	1,036.4	4,106.4	218.7	218.7	99.6	531.1	—	630.7
<b>Mississippi</b>												
October 1998 .....	102.7	118.9	5.2	W	W	2,683.0	26.7	29.4	W	W	—	317.3
September 1998 .....	93.8	108.9	4.8	W	W	3,299.4	24.3	27.3	W	W	—	333.5
October 1997 .....	87.4	108.4	8.5	W	W	3,011.7	21.8	25.5	W	W	—	363.1
<b>New Mexico</b>												
October 1998 .....	455.9	457.9	W	W	—	1,486.8	91.2	91.2	W	W	—	103.9
September 1998 .....	436.9	441.1	W	W	—	1,461.3	86.9	86.9	W	W	—	100.3
October 1997 .....	455.2	465.9	W	W	—	1,550.5	85.2	85.3	W	W	—	155.6
<b>Texas</b>												
October 1998 .....	4,708.1	4,823.3	1,106.8	15,967.4	13,326.8	30,401.0	1,266.9	1,276.5	340.7	1,792.1	—	2,132.8
September 1998 .....	4,778.8	4,903.1	1,253.7	14,890.3	11,868.8	28,012.8	1,281.0	1,292.5	363.5	1,683.5	—	2,047.0
October 1997 .....	4,792.5	5,054.0	1,320.4	14,698.0	14,291.2	30,309.5	1,242.8	1,255.8	405.4	1,853.1	—	2,258.5
<b>PAD District IV</b>												
October 1998 .....	1,783.0	1,894.5	693.9	W	W	6,281.9	615.8	626.5	W	W	—	844.4
September 1998 .....	1,824.3	1,939.4	814.3	5,640.9	—	6,455.1	627.3	636.1	W	W	—	823.4
October 1997 .....	1,671.2	1,766.7	W	5,906.6	W	6,614.1	566.0	585.9	180.5	654.3	—	834.8
<b>Colorado</b>												
October 1998 .....	1,224.8	1,229.8	NA	W	W	2,072.6	452.4	453.0	W	W	—	342.2
September 1998 .....	1,257.4	1,261.7	NA	1,950.0	—	2,097.6	460.6	460.8	NA	302.0	—	366.5
October 1997 .....	1,215.4	1,216.6	W	1,990.5	W	2,179.6	402.0	402.0	W	W	—	353.5

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
October 1998 .....	W	W	NA	121.5	—	140.1	55.3	57.2	NA	1,876.3	—	2,005.6
September 1998 .....	W	W	NA	125.6	—	143.5	58.7	60.7	NA	1,881.5	—	2,006.2
October 1997 .....	W	W	W	W	—	145.3	117.2	118.9	W	W	—	2,110.2
<b>North Dakota</b>												
October 1998 .....	W	W	NA	51.6	—	59.0	W	4.5	NA	948.7	—	1,015.1
September 1998 .....	W	W	NA	53.9	—	61.1	W	W	NA	953.0	—	1,017.7
October 1997 .....	W	W	W	W	—	W	W	4.6	W	W	—	1,062.5
<b>Ohio</b>												
October 1998 .....	550.0	577.1	422.6	955.0	—	1,377.6	5,072.0	5,299.9	W	6,792.7	W	9,470.0
September 1998 .....	565.7	591.6	416.1	936.6	—	1,352.8	5,087.8	5,308.7	2,469.8	W	W	9,095.8
October 1997 .....	572.5	598.3	518.7	W	W	1,364.4	5,339.4	5,592.0	W	5,813.2	W	9,417.9
<b>Oklahoma</b>												
October 1998 .....	133.5	138.5	NA	536.5	187.0	737.0	912.2	944.0	NA	3,302.5	2,719.3	6,088.4
September 1998 .....	125.4	130.9	W	555.8	W	749.8	891.0	923.4	W	W	3,475.2	6,818.7
October 1997 .....	115.6	115.9	W	469.6	W	652.9	962.6	975.3	W	3,444.1	W	6,890.2
<b>South Dakota</b>												
October 1998 .....	0.7	W	NA	72.1	—	77.2	W	14.9	NA	1,158.4	—	1,197.3
September 1998 .....	0.8	0.8	NA	69.4	—	74.2	W	W	NA	1,061.5	—	1,098.6
October 1997 .....	W	W	W	63.6	—	W	W	17.8	48.2	1,151.5	—	1,199.6
<b>Tennessee</b>												
October 1998 .....	349.6	353.6	68.3	1,803.1	—	1,871.4	1,589.1	1,627.2	255.6	8,273.4	—	8,529.0
September 1998 .....	343.0	347.0	66.3	1,874.8	—	1,941.1	1,578.6	1,613.5	244.3	8,461.2	—	8,705.6
October 1997 .....	293.9	300.9	109.7	1,596.9	—	1,706.6	1,587.7	1,622.6	483.9	8,297.7	—	8,781.6
<b>Wisconsin</b>												
October 1998 .....	74.5	75.0	W	W	—	655.3	757.5	766.3	W	5,609.2	W	6,051.1
September 1998 .....	69.2	70.0	W	W	—	690.2	728.2	737.4	W	5,652.8	W	6,055.9
October 1997 .....	73.0	73.2	73.5	562.6	—	636.1	820.0	827.7	W	5,523.9	W	6,076.2
<b>PAD District III</b>												
October 1998 .....	1,631.5	1,653.6	646.8	6,804.5	1,571.8	9,023.0	9,742.2	9,969.2	2,684.2	39,312.1	16,323.8	58,320.1
September 1998 .....	1,672.5	1,732.2	702.0	6,688.9	2,242.9	9,633.8	9,792.8	10,062.2	2,858.7	37,771.9	16,365.8	56,996.4
October 1997 .....	1,443.9	1,475.1	707.4	5,821.3	1,937.8	8,466.5	9,644.9	10,030.5	3,039.9	37,378.5	18,051.6	58,470.0
<b>Alabama</b>												
October 1998 .....	66.4	75.9	38.2	1,183.2	—	1,221.3	382.3	430.6	152.8	5,504.9	—	5,657.7
September 1998 .....	66.5	75.7	34.7	1,176.8	—	1,211.5	381.7	423.2	139.6	5,288.7	—	5,428.3
October 1997 .....	65.2	73.8	36.5	1,031.4	—	1,067.8	407.5	451.7	154.2	5,212.4	—	5,366.6
<b>Arkansas</b>												
October 1998 .....	30.9	30.9	W	W	W	753.2	222.5	225.2	W	3,456.7	W	3,819.5
September 1998 .....	32.8	33.3	W	W	W	803.5	234.3	237.6	W	3,519.8	W	3,857.8
October 1997 .....	32.4	32.6	W	W	W	693.9	276.1	280.7	W	3,742.9	W	4,012.7
<b>Louisiana</b>												
October 1998 .....	203.4	206.7	153.8	899.0	203.2	1,256.0	1,155.2	1,176.1	462.8	4,389.9	1,072.9	5,925.6
September 1998 .....	192.8	196.3	147.0	868.2	815.7	1,830.8	1,094.7	1,114.7	435.8	4,273.3	1,958.9	6,668.0
October 1997 .....	181.5	181.7	163.8	808.9	495.4	1,468.1	1,111.5	1,116.4	501.4	4,172.1	1,531.8	6,205.2
<b>Mississippi</b>												
October 1998 .....	22.6	26.4	W	W	W	690.4	152.0	174.6	8.7	W	W	3,690.6
September 1998 .....	20.9	23.8	W	673.8	W	742.5	139.0	160.0	8.2	W	W	4,375.4
October 1997 .....	15.7	20.7	W	W	W	623.1	124.9	154.5	13.4	W	W	3,997.9
<b>New Mexico</b>												
October 1998 .....	61.4	61.4	W	W	—	294.1	608.5	610.5	W	W	—	1,884.8
September 1998 .....	58.8	59.1	W	W	—	275.4	582.6	587.1	W	W	—	1,837.0
October 1997 .....	55.7	57.8	W	W	—	244.1	596.1	609.0	W	W	—	1,950.1
<b>Texas</b>												
October 1998 .....	1,246.7	1,252.3	428.5	3,193.8	1,185.7	4,808.1	7,221.7	7,352.1	1,876.1	20,953.3	14,512.5	37,341.8
September 1998 .....	1,300.6	1,344.0	497.0	3,087.7	1,185.5	4,770.2	7,360.4	7,539.6	2,114.2	19,661.5	13,054.3	34,829.9
October 1997 .....	1,093.5	1,108.5	485.0	2,544.7	1,339.7	4,369.5	7,128.8	7,418.3	2,210.8	19,095.8	15,630.9	36,937.5
<b>PAD District IV</b>												
October 1998 .....	392.7	420.3	W	1,317.8	W	1,513.5	2,791.6	2,941.3	W	7,535.0	W	8,639.8
September 1998 .....	408.2	433.8	W	W	—	1,547.9	2,859.8	3,009.2	1,181.0	7,645.4	—	8,826.4
October 1997 .....	328.5	353.1	W	1,307.2	W	1,481.2	2,565.7	2,705.7	W	7,868.1	W	8,930.1
<b>Colorado</b>												
October 1998 .....	288.1	288.6	W	W	W	495.0	1,965.4	1,971.4	NA	W	W	2,909.8
September 1998 .....	300.7	300.7	NA	447.5	—	500.5	2,018.7	2,023.2	NA	2,699.5	—	2,964.6
October 1997 .....	235.1	235.3	W	W	W	430.2	1,852.4	1,853.9	W	2,649.1	W	2,963.3

See footnotes at end of table.



**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
October 1998 .....	97.5	113.2	W	W	—	1,099.0	11.5	12.3	W	W	—	137.5
September 1998 .....	97.6	114.0	192.6	927.4	—	1,120.0	11.8	12.4	W	W	—	133.4
October 1997 .....	101.3	113.5	165.5	843.3	—	1,008.7	11.3	12.9	W	W	—	125.7
<b>Montana</b>												
October 1998 .....	W	14.5	—	1,046.4	—	1,046.4	W	W	—	44.7	—	44.7
September 1998 .....	W	14.8	W	W	—	1,093.2	W	W	—	40.9	—	40.9
October 1997 .....	W	15.7	W	W	—	1,364.9	W	W	—	45.8	—	45.8
<b>Utah</b>												
October 1998 .....	409.9	497.9	412.0	1,095.1	—	1,507.0	142.9	152.3	85.0	230.1	—	315.2
September 1998 .....	415.7	506.1	464.6	1,103.6	—	1,568.2	145.0	152.9	W	W	—	276.1
October 1997 .....	303.9	379.7	342.7	1,169.0	—	1,511.7	144.5	162.9	W	W	—	303.5
<b>Wyoming</b>												
October 1998 .....	W	39.2	W	W	—	556.8	W	W	—	4.9	—	4.9
September 1998 .....	W	42.8	W	W	—	576.1	W	W	—	6.5	—	6.5
October 1997 .....	W	41.1	W	W	—	549.1	W	W	—	6.4	—	6.4
<b>PAD District V</b>												
October 1998 .....	9,818.6	10,054.6	19,310.1	W	W	37,200.6	2,176.5	2,199.8	W	W	NA	5,755.4
September 1998 .....	10,333.7	10,590.2	18,508.7	12,024.5	5,362.5	35,895.8	2,309.6	2,341.7	4,314.2	W	W	5,610.3
October 1997 .....	9,545.5	9,772.3	W	10,627.7	W	32,978.8	1,987.8	2,075.6	W	1,184.6	W	5,459.9
<b>Alaska</b>												
October 1998 .....	251.1	254.5	85.2	W	W	374.3	24.6	24.7	W	W	—	9.7
September 1998 .....	235.4	257.4	W	369.1	W	472.2	18.9	18.9	W	W	—	9.5
October 1997 .....	201.3	211.9	W	222.9	W	312.1	W	W	W	W	—	10.7
<b>Arizona</b>												
October 1998 .....	2,095.9	2,113.1	1,212.8	W	W	2,597.7	346.3	346.8	177.6	81.5	—	259.1
September 1998 .....	2,059.2	2,071.8	1,145.5	1,060.1	294.6	2,500.2	361.5	361.5	168.5	83.7	—	252.2
October 1997 .....	1,751.5	1,765.4	1,055.1	730.3	140.5	1,925.8	280.1	280.1	178.2	62.8	—	241.0
<b>California</b>												
October 1998 .....	5,559.1	5,683.6	13,694.6	4,810.2	4,985.1	23,489.9	1,439.1	1,453.2	3,501.7	654.1	NA	4,173.3
September 1998 .....	6,043.1	6,184.3	13,517.1	5,175.8	3,959.3	22,652.2	1,556.9	1,574.0	3,407.2	W	W	4,102.4
October 1997 .....	5,764.7	5,893.8	12,414.9	4,140.6	4,991.8	21,547.3	1,357.2	1,435.1	3,394.9	W	W	4,011.0
<b>Hawaii</b>												
October 1998 .....	148.6	223.5	367.4	70.1	—	437.5	27.1	35.6	95.1	3.7	—	98.8
September 1998 .....	138.0	204.0	325.4	68.0	—	393.4	24.2	32.3	88.9	3.7	—	92.6
October 1997 .....	140.6	194.6	308.0	67.0	—	375.0	27.1	36.7	W	W	—	96.9
<b>Nevada</b>												
October 1998 .....	151.0	157.1	843.2	762.6	146.1	1,751.8	33.4	33.4	185.5	61.5	—	247.0
September 1998 .....	147.4	150.1	736.8	W	W	1,527.5	35.4	41.6	W	W	—	235.0
October 1997 .....	126.5	136.8	716.9	W	W	1,401.6	W	W	158.2	53.2	—	211.4
<b>Oregon</b>												
October 1998 .....	468.0	473.8	972.7	1,859.0	NA	3,194.4	67.4	67.4	112.4	125.8	—	238.2
September 1998 .....	471.3	479.7	W	1,843.0	W	3,221.4	66.7	67.4	104.0	128.0	—	232.0
October 1997 .....	432.5	437.6	680.8	W	W	2,918.1	63.7	63.7	87.4	118.1	—	205.5
<b>Washington</b>												
October 1998 .....	1,144.8	1,148.9	2,134.1	2,780.7	NA	5,355.0	238.6	238.6	414.0	315.2	—	729.2
September 1998 .....	1,239.3	1,242.9	1,851.3	W	W	5,128.8	246.1	246.1	371.9	314.7	—	686.6
October 1997 .....	1,128.4	1,132.1	W	2,811.9	W	4,498.8	213.9	214.2	326.2	357.2	—	683.4

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
October 1998 .....	9.0	9.2	23.8	160.3	—	184.2	117.9	134.6	196.6	1,224.0	—	1,420.6
September 1998 .....	9.1	9.4	W	W	—	188.9	118.5	135.8	267.5	1,174.8	—	1,442.3
October 1997 .....	8.8	9.2	W	W	—	152.8	121.4	135.6	232.2	1,055.0	—	1,287.2
<b>Montana</b>												
October 1998 .....	W	W	—	257.4	—	257.4	W	19.5	—	1,348.5	—	1,348.5
September 1998 .....	W	W	W	W	—	270.3	W	19.9	W	W	—	1,404.4
October 1997 .....	W	W	—	394.5	—	394.5	W	20.1	W	W	—	1,805.2
<b>Utah</b>												
October 1998 .....	87.5	112.2	113.0	332.1	—	445.0	640.3	762.4	610.0	1,657.3	—	2,267.2
September 1998 .....	89.4	112.6	W	W	—	451.4	650.1	771.5	635.9	1,659.8	—	2,295.7
October 1997 .....	77.5	97.5	W	W	—	384.3	525.9	640.1	501.2	1,698.3	—	2,199.5
<b>Wyoming</b>												
October 1998 .....	W	W	W	W	—	132.0	W	53.4	W	W	—	693.7
September 1998 .....	W	W	W	W	—	136.8	W	58.8	W	W	—	719.4
October 1997 .....	W	W	W	W	—	119.4	W	56.0	W	W	—	674.9
<b>PAD District V</b>												
October 1998 .....	1,946.6	1,979.5	W	2,024.6	W	8,807.0	13,941.7	14,234.0	W	14,936.7	W	51,763.0
September 1998 .....	2,035.1	2,069.8	5,593.0	W	W	8,518.2	14,678.4	15,001.7	28,416.0	15,395.6	6,212.6	50,024.2
October 1997 .....	1,584.1	1,612.9	4,333.0	1,655.3	644.2	6,632.5	13,117.4	13,460.8	W	13,467.6	W	45,071.2
<b>Alaska</b>												
October 1998 .....	39.8	40.0	W	W	—	49.4	315.5	319.3	W	300.9	W	433.4
September 1998 .....	33.7	34.1	W	W	—	58.4	288.0	310.4	W	412.6	W	540.1
October 1997 .....	W	W	W	W	—	39.1	256.9	268.7	W	248.2	W	361.9
<b>Arizona</b>												
October 1998 .....	384.6	385.3	294.3	W	W	506.8	2,826.8	2,845.3	1,684.7	1,371.5	307.5	3,363.7
September 1998 .....	386.9	387.8	277.5	171.0	39.9	488.4	2,807.6	2,821.0	1,591.4	1,314.8	334.6	3,240.8
October 1997 .....	273.1	273.9	219.6	182.2	NA	411.9	2,304.7	2,319.4	1,452.9	975.3	150.5	2,578.8
<b>California</b>												
October 1998 .....	1,172.5	1,183.8	4,486.3	943.9	814.9	6,245.1	8,170.7	8,320.6	21,682.6	6,408.2	5,817.5	33,908.3
September 1998 .....	1,261.9	1,270.8	4,388.2	W	W	6,057.7	8,862.0	9,029.1	21,312.4	6,809.6	4,690.4	32,812.3
October 1997 .....	992.9	999.9	3,410.3	W	W	4,654.4	8,114.8	8,328.8	19,220.1	5,446.7	5,546.0	30,212.8
<b>Hawaii</b>												
October 1998 .....	64.0	84.2	174.4	21.6	—	196.0	239.7	343.4	636.9	95.5	—	732.4
September 1998 .....	59.6	83.3	163.3	23.5	—	186.9	221.8	319.6	577.6	95.3	—	672.9
October 1997 .....	57.7	77.0	W	W	—	180.8	225.4	308.3	561.4	91.3	—	652.7
<b>Nevada</b>												
October 1998 .....	30.5	30.5	NA	131.0	22.0	363.4	214.9	221.0	1,239.0	955.2	168.1	2,362.2
September 1998 .....	31.9	31.9	199.2	127.5	21.0	347.6	214.7	223.7	W	838.0	W	2,110.1
October 1997 .....	W	W	162.0	W	W	250.0	179.9	190.2	1,037.1	738.5	NA	1,863.0
<b>Oregon</b>												
October 1998 .....	67.7	68.2	151.4	254.9	NA	427.2	603.1	609.4	1,236.5	2,239.7	NA	3,859.7
September 1998 .....	67.3	68.1	W	267.6	W	424.6	605.3	615.2	1,096.5	2,238.6	542.9	3,878.0
October 1997 .....	50.5	50.9	84.5	W	W	367.3	546.7	552.3	852.7	2,379.1	259.0	3,490.9
<b>Washington</b>												
October 1998 .....	187.5	187.5	NA	469.8	NA	1,019.2	1,571.0	1,575.0	3,013.5	3,565.7	NA	7,103.4
September 1998 .....	193.7	193.7	407.4	W	W	954.6	1,679.1	1,682.7	2,630.5	3,686.8	452.6	6,769.9
October 1997 .....	146.7	146.7	W	419.3	W	729.0	1,489.0	1,493.0	2,129.6	3,588.5	193.1	5,911.1

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**  
(Thousand Gallons per Day)

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
October 1998 .....	38,909.5	40,498.9	22,754.3	151,358.0	25,881.0	199,993.3	2,111.6	2,137.3	3,229.5	5,860.7	—	9,090.3
September 1998 .....	37,602.1	39,210.4	21,075.8	151,968.4	26,208.4	199,252.7	2,072.0	2,088.4	2,724.4	4,221.7	—	6,946.1
October 1997 .....	37,049.0	38,859.8	24,358.2	149,201.9	29,459.2	203,019.2	2,750.0	2,809.0	2,734.5	5,468.2	—	8,202.7
<b>PAD District I</b>												
October 1998 .....	12,227.6	12,766.9	8,809.9	46,686.1	2,617.2	58,113.1	—	—	—	—	—	—
September 1998 .....	11,796.0	12,323.8	8,344.0	46,376.8	3,436.1	58,156.8	—	—	—	—	—	—
October 1997 .....	11,528.7	12,167.3	8,605.3	46,622.6	3,955.9	59,183.9	—	—	—	—	—	—
<b>Subdistrict IA</b>												
October 1998 .....	—	—	W	874.0	W	968.6	—	—	—	—	—	—
September 1998 .....	—	—	W	W	—	973.3	—	—	—	—	—	—
October 1997 .....	—	—	W	W	—	1,048.5	—	—	—	—	—	—
<b>Connecticut</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maine</b>												
October 1998 .....	—	—	—	W	—	613.4	—	—	—	—	—	—
September 1998 .....	—	—	—	657.7	—	657.7	—	—	—	—	—	—
October 1997 .....	—	—	—	752.3	—	752.3	—	—	—	—	—	—
<b>Massachusetts</b>												
October 1998 .....	—	—	—	—	W	W	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>New Hampshire</b>												
October 1998 .....	—	—	W	W	—	W	—	—	—	—	—	—
September 1998 .....	—	—	W	W	—	64.9	—	—	—	—	—	—
October 1997 .....	—	—	W	W	—	29.6	—	—	—	—	—	—
<b>Rhode Island</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Vermont</b>												
October 1998 .....	—	—	W	W	—	255.5	—	—	—	—	—	—
September 1998 .....	—	—	W	W	—	250.7	—	—	—	—	—	—
October 1997 .....	—	—	W	W	—	266.6	—	—	—	—	—	—
<b>Subdistrict IB</b>												
October 1998 .....	2,808.1	2,855.7	W	10,249.0	W	15,261.2	—	—	—	—	—	—
September 1998 .....	2,735.1	2,780.7	W	10,164.3	W	15,672.1	—	—	—	—	—	—
October 1997 .....	2,769.1	2,842.7	W	W	3,580.4	16,360.4	—	—	—	—	—	—
<b>Delaware</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>District of Columbia</b>												
October 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
September 1998 .....	—	—	—	—	—	—	—	—	—	—	—	—
October 1997 .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Maryland</b>												
October 1998 .....	—	W	W	W	—	568.7	—	—	—	—	—	—
September 1998 .....	—	W	W	W	—	602.4	—	—	—	—	—	—
October 1997 .....	W	4.3	W	W	—	590.9	—	—	—	—	—	—
<b>New Jersey</b>												
October 1998 .....	—	—	—	—	1,111.9	1,111.9	—	—	—	—	—	—
September 1998 .....	—	—	—	—	1,393.2	1,393.2	—	—	—	—	—	—
October 1997 .....	—	—	—	—	1,779.7	1,779.7	—	—	—	—	—	—
<b>New York</b>												
October 1998 .....	1,363.5	W	W	3,910.5	W	5,334.5	—	—	—	—	—	—
September 1998 .....	1,317.3	W	W	3,868.1	W	5,349.5	—	—	—	—	—	—
October 1997 .....	W	1,301.5	W	3,855.0	W	5,760.3	—	—	—	—	—	—
<b>Pennsylvania</b>												
October 1998 .....	1,444.6	1,467.9	1,397.3	W	W	8,246.0	—	—	—	—	—	—
September 1998 .....	1,417.8	1,437.2	W	W	W	8,327.0	—	—	—	—	—	—
October 1997 .....	1,512.9	1,537.0	W	5,729.6	W	8,229.4	—	—	—	—	—	—

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>United States</b>												
October 1998 .....	22,124.9	22,499.2	48,363.3	32,962.2	10,426.8	91,752.3	63,146.1	65,135.5	74,347.1	190,180.9	36,307.8	300,835.8
September 1998 .....	23,488.5	23,870.9	48,485.2	33,001.9	11,549.4	93,036.4	63,162.5	65,169.7	72,285.4	189,192.0	37,757.8	299,235.2
October 1997 .....	22,169.8	22,686.4	46,768.4	30,890.7	10,691.3	88,350.5	61,968.9	64,355.2	73,861.0	185,560.8	40,150.5	299,572.4
<b>PAD District I</b>												
October 1998 .....	4,458.2	4,621.8	20,898.3	15,492.0	4,267.8	40,658.0	16,685.8	17,388.7	29,708.1	62,178.0	6,885.0	98,771.1
September 1998 .....	4,469.9	4,629.0	20,438.0	15,795.8	5,425.9	41,659.7	16,265.9	16,952.8	28,782.0	62,172.5	8,862.0	99,816.6
October 1997 .....	4,265.9	4,508.1	20,854.0	15,653.1	4,679.4	41,186.5	15,794.7	16,675.5	29,459.3	62,275.7	8,635.4	100,370.4
<b>Subdistrict IA</b>												
October 1998 .....	773.6	782.8	W	5,104.4	W	10,394.1	773.6	782.8	4,531.7	5,978.4	852.6	11,362.6
September 1998 .....	774.9	783.0	4,377.2	W	W	9,974.9	774.9	783.0	W	6,116.6	W	10,948.2
October 1997 .....	722.8	732.3	W	W	971.8	10,923.5	722.8	732.3	4,508.5	6,491.7	971.8	11,972.0
<b>Connecticut</b>												
October 1998 .....	W	W	1,362.3	W	W	3,329.7	W	W	1,362.3	W	W	3,329.7
September 1998 .....	W	W	W	1,660.8	W	3,115.6	W	W	W	1,660.8	W	3,115.6
October 1997 .....	W	W	W	1,674.8	W	3,620.1	W	W	W	1,674.8	W	3,620.1
<b>Maine</b>												
October 1998 .....	—	—	W	W	W	899.5	—	—	W	1,151.2	W	1,512.9
September 1998 .....	—	—	W	W	—	676.2	—	—	W	W	—	1,333.9
October 1997 .....	—	—	W	W	—	733.0	—	—	W	W	—	1,485.2
<b>Massachusetts</b>												
October 1998 .....	444.6	448.1	2,352.9	W	W	W	444.6	448.1	2,352.9	W	W	4,705.6
September 1998 .....	448.0	450.6	2,303.1	W	W	4,599.1	448.0	450.6	2,303.1	W	W	4,599.1
October 1997 .....	412.5	415.4	2,364.3	W	W	5,020.3	412.5	415.4	2,364.3	W	W	5,020.3
<b>New Hampshire</b>												
October 1998 .....	102.5	102.5	W	W	—	W	102.5	102.5	258.7	153.6	—	412.4
September 1998 .....	100.0	100.0	W	W	—	356.5	100.0	100.0	255.1	166.3	—	421.4
October 1997 .....	100.5	100.5	W	W	—	304.8	100.5	100.5	277.7	56.6	—	334.4
<b>Rhode Island</b>												
October 1998 .....	W	W	431.8	714.8	—	1,146.6	W	W	431.8	714.8	—	1,146.6
September 1998 .....	W	W	420.0	807.6	—	1,227.6	W	W	420.0	807.6	—	1,227.6
October 1997 .....	W	W	400.1	845.3	—	1,245.4	W	W	400.1	845.3	—	1,245.4
<b>Vermont</b>												
October 1998 .....	—	—	—	—	—	—	—	—	W	W	—	255.5
September 1998 .....	—	—	—	—	—	—	—	—	W	W	—	250.7
October 1997 .....	—	—	—	—	—	—	—	—	W	W	—	266.6
<b>Subdistrict IB</b>												
October 1998 .....	2,771.2	2,875.6	W	7,902.6	W	25,660.1	5,579.3	5,731.4	17,011.1	18,151.7	5,758.5	40,921.3
September 1998 .....	2,779.2	2,882.9	13,952.9	8,038.3	5,002.1	26,993.4	5,514.3	5,663.6	W	18,202.6	W	42,665.4
October 1997 .....	2,654.3	2,821.9	W	W	3,707.6	25,763.8	5,423.5	5,664.6	16,924.1	17,912.1	7,288.0	42,124.2
<b>Delaware</b>												
October 1998 .....	35.2	47.1	331.4	510.7	—	842.1	35.2	47.1	331.4	510.7	—	842.1
September 1998 .....	35.0	47.6	W	W	—	864.4	35.0	47.6	W	W	—	864.4
October 1997 .....	W	41.7	336.5	452.7	—	789.2	W	41.7	336.5	452.7	—	789.2
<b>District of Columbia</b>												
October 1998 .....	—	10.0	NA	—	—	NA	—	10.0	NA	—	—	NA
September 1998 .....	—	W	335.4	—	—	335.4	—	W	335.4	—	—	335.4
October 1997 .....	—	13.1	367.0	—	—	367.0	—	13.1	367.0	—	—	367.0
<b>Maryland</b>												
October 1998 .....	—	W	W	W	—	4,690.1	—	40.3	3,062.9	2,195.9	—	5,258.8
September 1998 .....	—	W	W	W	W	4,593.2	—	W	2,983.8	W	W	5,195.6
October 1997 .....	W	41.3	W	1,693.7	W	4,898.6	W	45.5	3,212.1	W	W	5,489.5
<b>New Jersey</b>												
October 1998 .....	1,362.6	1,388.2	4,713.4	3,361.6	2,723.4	10,798.4	1,362.6	1,388.2	4,713.4	3,361.6	3,835.3	11,910.3
September 1998 .....	1,378.6	1,406.0	4,622.1	3,447.8	4,692.0	12,761.8	1,378.6	1,406.0	4,622.1	3,447.8	6,085.2	14,155.0
October 1997 .....	1,336.1	1,401.9	4,655.7	3,220.1	3,035.2	10,911.0	1,336.1	1,401.9	4,655.7	3,220.1	4,814.9	12,690.8
<b>New York</b>												
October 1998 .....	701.4	W	W	1,493.4	W	6,303.5	2,064.9	2,102.3	5,418.5	5,403.9	815.7	11,638.1
September 1998 .....	703.4	W	W	1,537.2	W	5,848.9	2,020.7	2,058.9	5,336.8	5,405.3	456.2	11,198.4
October 1997 .....	W	708.8	W	1,475.8	W	6,190.5	1,941.3	2,010.3	5,350.0	5,330.8	1,270.0	11,950.8
<b>Pennsylvania</b>												
October 1998 .....	672.0	675.5	1,752.7	W	W	2,691.1	2,116.6	2,143.4	3,150.1	6,679.6	1,107.4	10,937.1
September 1998 .....	662.2	665.8	W	W	W	2,589.6	2,080.0	2,103.1	2,973.7	6,619.7	1,323.2	10,916.6
October 1997 .....	595.2	615.1	W	W	—	2,607.5	2,108.1	2,152.0	3,002.7	W	W	10,836.9

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
October 1998 .....	9,419.5	9,911.1	6,046.4	35,563.0	NA	41,883.4	—	—	—	—	—	—
September 1998 .....	9,060.9	9,543.1	5,666.5	W	W	41,511.5	—	—	—	—	—	—
October 1997 .....	8,759.6	9,324.6	5,912.5	35,487.0	375.6	41,775.0	—	—	—	—	—	—
<b>Florida</b>												
October 1998 .....	4,856.7	5,040.5	W	9,271.6	W	14,054.3	—	—	—	—	—	—
September 1998 .....	4,570.0	4,742.3	4,392.0	8,971.8	195.8	13,559.7	—	—	—	—	—	—
October 1997 .....	4,429.6	4,651.6	W	9,167.6	W	13,755.3	—	—	—	—	—	—
<b>Georgia</b>												
October 1998 .....	2,081.6	2,190.7	1,036.2	7,915.9	—	8,952.2	—	—	—	—	—	—
September 1998 .....	2,040.3	2,150.1	W	7,783.1	W	8,786.8	—	—	—	—	—	—
October 1997 .....	1,923.2	2,054.1	1,022.1	7,960.5	—	8,982.6	—	—	—	—	—	—
<b>North Carolina</b>												
October 1998 .....	826.4	943.3	W	W	—	9,781.4	—	—	—	—	—	—
September 1998 .....	821.1	937.9	W	W	—	9,892.4	—	—	—	—	—	—
October 1997 .....	815.0	946.4	120.8	9,658.0	—	9,778.8	—	—	—	—	—	—
<b>South Carolina</b>												
October 1998 .....	853.1	911.3	W	W	—	4,580.0	—	—	—	—	—	—
September 1998 .....	845.3	905.4	W	W	—	4,640.9	—	—	—	—	—	—
October 1997 .....	862.9	914.6	W	W	—	4,467.1	—	—	—	—	—	—
<b>Virginia</b>												
October 1998 .....	187.6	198.0	W	W	W	4,050.5	—	—	—	—	—	—
September 1998 .....	183.3	193.9	W	W	NA	4,156.0	—	—	—	—	—	—
October 1997 .....	140.7	151.6	W	W	W	4,176.1	—	—	—	—	—	—
<b>West Virginia</b>												
October 1998 .....	614.1	627.3	W	W	—	464.9	—	—	—	—	—	—
September 1998 .....	600.8	613.4	W	W	—	475.7	—	—	—	—	—	—
October 1997 .....	588.2	606.4	W	W	—	615.2	—	—	—	—	—	—
<b>PAD District II</b>												
October 1998 .....	15,025.5	15,579.2	W	58,325.2	W	71,103.3	1,109.4	1,124.7	W	W	—	3,797.5
September 1998 .....	14,802.3	15,330.5	W	W	6,317.4	71,670.8	1,091.5	1,100.4	W	W	—	3,691.3
October 1997 .....	15,847.8	16,423.3	10,799.6	57,294.0	7,173.6	75,267.2	1,189.9	1,210.6	W	W	—	3,520.9
<b>Illinois</b>												
October 1998 .....	540.1	550.9	W	4,686.7	W	6,254.7	—	—	—	—	—	—
September 1998 .....	527.6	539.3	W	W	1,431.6	6,141.3	—	—	—	—	—	—
October 1997 .....	622.7	637.1	W	W	1,818.1	6,827.4	—	—	—	—	—	—
<b>Indiana</b>												
October 1998 .....	1,420.0	1,433.6	W	W	313.7	5,383.9	—	—	—	—	—	—
September 1998 .....	1,348.6	1,359.8	W	W	363.2	5,510.9	—	—	—	—	—	—
October 1997 .....	1,456.1	1,473.3	1,304.0	4,260.3	382.6	5,947.0	—	—	—	—	—	—
<b>Iowa</b>												
October 1998 .....	143.8	146.4	NA	3,524.4	—	3,628.6	—	—	—	—	—	—
September 1998 .....	143.2	145.2	NA	3,561.5	—	3,662.1	—	—	—	—	—	—
October 1997 .....	213.4	217.7	W	W	—	3,782.5	—	—	—	—	—	—
<b>Kansas</b>												
October 1998 .....	562.9	585.5	W	2,663.6	W	3,387.5	—	—	—	—	—	—
September 1998 .....	562.2	577.6	W	2,749.2	W	3,477.0	—	—	—	—	—	—
October 1997 .....	583.2	601.7	W	2,982.0	W	3,954.1	—	—	—	—	—	—
<b>Kentucky</b>												
October 1998 .....	479.2	W	W	W	W	3,613.0	—	—	—	—	—	—
September 1998 .....	W	509.6	W	W	W	3,440.3	—	—	—	—	—	—
October 1997 .....	464.9	W	W	W	—	3,429.0	—	—	—	—	—	—
<b>Michigan</b>												
October 1998 .....	3,105.1	3,250.8	2,501.8	6,875.1	—	9,376.9	—	—	—	—	—	—
September 1998 .....	3,007.2	3,148.8	2,440.9	7,042.6	—	9,483.5	—	—	—	—	—	—
October 1997 .....	3,196.8	3,362.1	3,638.6	6,727.9	—	10,366.5	—	—	—	—	—	—
<b>Minnesota</b>												
October 1998 .....	W	W	NA	1,161.8	W	W	W	W	W	3,140.0	—	W
September 1998 .....	W	W	0.2	1,292.6	W	W	W	W	W	3,034.7	—	W
October 1997 .....	W	W	—	1,456.1	W	W	W	W	W	3,037.6	—	W
<b>Missouri</b>												
October 1998 .....	875.9	894.8	NA	4,734.6	—	5,253.7	—	—	—	—	—	—
September 1998 .....	853.3	871.0	510.8	4,699.3	—	5,210.2	—	—	—	—	—	—
October 1997 .....	985.9	1,007.7	659.6	4,526.5	—	5,186.0	—	—	—	—	—	—

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Subdistrict IC</b>												
October 1998 .....	913.4	963.4	2,118.9	2,485.0	—	4,603.9	10,332.9	10,874.5	8,165.3	38,048.0	NA	46,487.2
September 1998 .....	915.8	963.1	2,107.9	W	W	4,691.4	9,976.7	10,506.2	7,774.4	37,853.3	575.2	46,202.9
October 1997 .....	888.8	953.9	2,114.2	2,384.9	—	4,499.1	9,648.5	10,278.5	8,026.7	37,871.9	375.6	46,274.2
<b>Florida</b>												
October 1998 .....	—	—	—	—	—	—	4,856.7	5,040.5	W	9,271.6	W	14,054.3
September 1998 .....	—	—	—	—	—	—	4,570.0	4,742.3	4,392.0	8,971.8	195.8	13,559.7
October 1997 .....	—	—	—	—	—	—	4,429.6	4,651.6	W	9,167.6	W	13,755.3
<b>Georgia</b>												
October 1998 .....	—	—	—	—	—	—	2,081.6	2,190.7	1,036.2	7,915.9	—	8,952.2
September 1998 .....	—	—	—	—	—	—	2,040.3	2,150.1	W	7,783.1	W	8,786.8
October 1997 .....	—	—	—	—	—	—	1,923.2	2,054.1	1,022.1	7,960.5	—	8,982.6
<b>North Carolina</b>												
October 1998 .....	—	—	—	—	—	—	826.4	943.3	W	W	—	9,781.4
September 1998 .....	—	—	—	—	—	—	821.1	937.9	W	W	—	9,892.4
October 1997 .....	—	—	—	—	—	—	815.0	946.4	120.8	9,658.0	—	9,778.8
<b>South Carolina</b>												
October 1998 .....	—	—	—	—	—	—	853.1	911.3	W	W	—	4,580.0
September 1998 .....	—	—	—	—	—	—	845.3	905.4	W	W	—	4,640.9
October 1997 .....	—	—	—	—	—	—	862.9	914.6	W	W	—	4,467.1
<b>Virginia</b>												
October 1998 .....	913.4	963.4	W	W	—	4,603.9	1,101.0	1,161.4	W	6,295.2	W	8,654.4
September 1998 .....	915.8	963.1	2,107.9	W	W	4,691.4	1,099.1	1,157.0	W	6,344.8	W	8,847.4
October 1997 .....	888.8	953.9	W	W	—	4,499.1	1,029.5	1,105.5	W	6,232.3	W	8,675.2
<b>West Virginia</b>												
October 1998 .....	—	—	—	—	—	—	614.1	627.3	W	W	—	464.9
September 1998 .....	—	—	—	—	—	—	600.8	613.4	W	W	—	475.7
October 1997 .....	—	—	—	—	—	—	588.2	606.4	W	W	—	615.2
<b>PAD District II</b>												
October 1998 .....	3,850.0	3,898.4	3,653.5	W	W	8,440.9	19,984.8	20,602.3	11,294.7	66,219.1	5,827.9	83,341.7
September 1998 .....	3,671.7	3,713.0	3,575.6	4,633.9	—	8,209.5	19,565.5	20,143.8	11,047.7	66,206.5	6,317.4	83,571.6
October 1997 .....	3,808.5	3,848.7	W	W	—	7,942.6	20,846.2	21,482.6	14,986.1	64,571.0	7,173.6	86,730.7
<b>Illinois</b>												
October 1998 .....	2,732.5	2,739.8	W	1,975.1	W	4,774.2	3,272.5	3,290.7	2,784.2	6,661.8	1,582.9	11,028.9
September 1998 .....	2,600.6	2,608.2	W	W	—	4,533.7	3,128.3	3,147.5	2,722.2	6,521.3	1,431.6	10,675.0
October 1997 .....	2,669.0	2,679.3	W	W	—	4,625.9	3,291.7	3,316.4	3,253.6	6,381.6	1,818.1	11,453.3
<b>Indiana</b>												
October 1998 .....	298.6	306.2	W	W	—	1,190.4	1,718.6	1,739.8	944.3	5,316.4	313.7	6,574.3
September 1998 .....	287.5	294.4	W	W	—	1,154.9	1,636.1	1,654.3	941.3	5,361.2	363.2	6,665.8
October 1997 .....	268.9	271.8	262.5	518.5	—	781.0	1,725.0	1,745.1	1,566.5	4,778.8	382.6	6,728.0
<b>Iowa</b>												
October 1998 .....	—	—	—	—	—	—	143.8	146.4	NA	3,524.4	—	3,628.6
September 1998 .....	—	—	—	—	—	—	143.2	145.2	NA	3,561.5	—	3,662.1
October 1997 .....	—	—	—	—	—	—	213.4	217.7	W	W	—	3,782.5
<b>Kansas</b>												
October 1998 .....	—	—	—	—	—	—	562.9	585.5	W	2,663.6	W	3,387.5
September 1998 .....	—	—	—	—	—	—	562.2	577.6	W	2,749.2	W	3,477.0
October 1997 .....	—	—	—	—	—	—	583.2	601.7	W	2,982.0	W	3,954.1
<b>Kentucky</b>												
October 1998 .....	313.2	W	W	W	—	908.9	792.4	855.1	W	4,180.3	W	4,521.9
September 1998 .....	W	328.1	W	W	—	992.0	782.6	837.8	W	4,182.6	W	4,432.4
October 1997 .....	348.8	W	W	W	—	969.3	813.7	862.1	487.0	3,911.3	—	4,398.3
<b>Michigan</b>												
October 1998 .....	—	—	—	—	—	—	3,105.1	3,250.8	2,501.8	6,875.1	—	9,376.9
September 1998 .....	—	—	—	—	—	—	3,007.2	3,148.8	2,440.9	7,042.6	—	9,483.5
October 1997 .....	—	—	—	—	—	—	3,196.8	3,362.1	3,638.6	6,727.9	—	10,366.5
<b>Minnesota</b>												
October 1998 .....	—	—	—	—	—	—	1,109.9	1,125.3	W	4,301.7	W	5,213.4
September 1998 .....	—	—	—	—	—	—	1,092.1	1,100.9	W	4,327.3	W	5,167.1
October 1997 .....	—	—	—	—	—	—	1,190.3	1,211.0	W	4,493.7	W	5,323.7
<b>Missouri</b>												
October 1998 .....	—	—	—	—	—	—	875.9	894.8	NA	4,734.6	—	5,253.7
September 1998 .....	—	—	—	—	—	—	853.3	871.0	510.8	4,699.3	—	5,210.2
October 1997 .....	—	—	—	—	—	—	985.9	1,007.7	659.6	4,526.5	—	5,186.0

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
October 1998 .....	55.3	57.2	NA	1,876.3	—	2,005.6	—	—	—	—	—	—
September 1998 .....	58.7	60.7	NA	1,881.5	—	2,006.2	—	—	—	—	—	—
October 1997 .....	117.2	118.9	W	W	—	2,110.2	—	—	—	—	—	—
<b>North Dakota</b>												
October 1998 .....	W	4.5	NA	948.7	—	1,015.1	—	—	—	—	—	—
September 1998 .....	W	W	NA	953.0	—	1,017.7	—	—	—	—	—	—
October 1997 .....	W	4.6	W	W	—	1,062.5	—	—	—	—	—	—
<b>Ohio</b>												
October 1998 .....	5,072.0	5,299.9	W	6,792.7	W	9,470.0	—	—	—	—	—	—
September 1998 .....	5,087.8	5,308.7	2,469.8	W	W	9,095.8	—	—	—	—	—	—
October 1997 .....	5,339.4	5,592.0	W	5,813.2	W	9,417.9	—	—	—	—	—	—
<b>Oklahoma</b>												
October 1998 .....	912.2	944.0	NA	3,302.5	2,719.3	6,088.4	—	—	—	—	—	—
September 1998 .....	891.0	923.4	W	W	3,475.2	6,818.7	—	—	—	—	—	—
October 1997 .....	962.6	975.3	W	3,444.1	W	6,890.2	—	—	—	—	—	—
<b>South Dakota</b>												
October 1998 .....	W	14.9	NA	1,158.4	—	1,197.3	—	—	—	—	—	—
September 1998 .....	W	W	NA	1,061.5	—	1,098.6	—	—	—	—	—	—
October 1997 .....	W	17.8	48.2	1,151.5	—	1,199.6	—	—	—	—	—	—
<b>Tennessee</b>												
October 1998 .....	1,589.1	1,627.2	255.6	8,273.4	—	8,529.0	—	—	—	—	—	—
September 1998 .....	1,578.6	1,613.5	244.3	8,461.2	—	8,705.6	—	—	—	—	—	—
October 1997 .....	1,587.7	1,622.6	483.9	8,297.7	—	8,781.6	—	—	—	—	—	—
<b>Wisconsin</b>												
October 1998 .....	251.8	W	NA	4,344.8	W	W	—	—	—	W	—	W
September 1998 .....	W	255.1	NA	W	W	W	—	—	—	W	—	W
October 1997 .....	298.3	W	166.4	4,273.4	W	W	—	—	—	W	—	W
<b>PAD District III</b>												
October 1998 .....	5,392.3	W	W	W	15,306.6	48,500.1	129.6	W	W	W	—	686.3
September 1998 .....	5,346.2	5,604.8	W	W	14,382.2	47,185.5	W	W	W	W	—	276.8
October 1997 .....	W	W	W	31,375.1	W	49,250.0	W	W	W	W	—	596.6
<b>Alabama</b>												
October 1998 .....	382.3	430.6	152.8	5,504.9	—	5,657.7	—	—	—	—	—	—
September 1998 .....	381.7	423.2	139.6	5,288.7	—	5,428.3	—	—	—	—	—	—
October 1997 .....	407.5	451.7	154.2	5,212.4	—	5,366.6	—	—	—	—	—	—
<b>Arkansas</b>												
October 1998 .....	222.5	225.2	W	3,456.7	W	3,819.5	—	—	—	—	—	—
September 1998 .....	234.3	237.6	W	3,519.8	W	3,857.8	—	—	—	—	—	—
October 1997 .....	276.1	280.7	W	3,742.9	W	4,012.7	—	—	—	—	—	—
<b>Louisiana</b>												
October 1998 .....	1,155.2	W	462.8	4,389.9	W	W	—	—	—	—	—	—
September 1998 .....	1,094.7	W	435.8	4,273.3	W	W	—	—	—	—	—	—
October 1997 .....	1,111.5	W	501.4	4,172.1	W	W	—	—	—	—	—	—
<b>Mississippi</b>												
October 1998 .....	152.0	174.6	8.7	W	W	3,690.6	—	—	—	—	—	—
September 1998 .....	139.0	160.0	8.2	W	W	4,375.4	—	—	—	—	—	—
October 1997 .....	124.9	154.5	13.4	W	W	3,997.9	—	—	—	—	—	—
<b>New Mexico</b>												
October 1998 .....	W	W	W	W	—	W	W	W	W	W	—	W
September 1998 .....	W	587.1	W	W	—	W	—	—	W	—	—	W
October 1997 .....	W	W	W	W	—	W	W	W	W	W	—	W
<b>Texas</b>												
October 1998 .....	W	3,034.3	W	W	W	27,811.6	W	W	—	W	—	W
September 1998 .....	W	W	167.7	W	W	25,241.4	W	W	—	W	—	W
October 1997 .....	W	2,989.5	W	W	14,652.8	28,045.3	W	W	W	W	—	W
<b>PAD District IV</b>												
October 1998 .....	2,791.6	W	1,054.5	W	W	7,787.9	—	W	W	W	—	852.0
September 1998 .....	2,859.8	3,009.2	1,181.0	7,131.0	—	8,312.0	—	—	—	514.5	—	514.5
October 1997 .....	W	W	W	W	W	8,085.5	W	W	W	W	—	844.6
<b>Colorado</b>												
October 1998 .....	1,965.4	W	W	1,839.7	W	2,126.5	—	W	W	W	—	783.3
September 1998 .....	2,018.7	2,023.2	W	W	—	2,450.1	—	—	—	W	—	514.5
October 1997 .....	W	W	W	W	W	2,179.8	W	W	W	W	—	783.5

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Nebraska</b>												
October 1998 .....	—	—	—	—	—	—	55.3	57.2	NA	1,876.3	—	2,005.6
September 1998 .....	—	—	—	—	—	—	58.7	60.7	NA	1,881.5	—	2,006.2
October 1997 .....	—	—	—	—	—	—	117.2	118.9	W	W	—	2,110.2
<b>North Dakota</b>												
October 1998 .....	—	—	—	—	—	—	W	4.5	NA	948.7	—	1,015.1
September 1998 .....	—	—	—	—	—	—	W	W	NA	953.0	—	1,017.7
October 1997 .....	—	—	—	—	—	—	W	4.6	W	W	—	1,062.5
<b>Ohio</b>												
October 1998 .....	—	—	—	—	—	—	5,072.0	5,299.9	W	6,792.7	W	9,470.0
September 1998 .....	—	—	—	—	—	—	5,087.8	5,308.7	2,469.8	W	W	9,095.8
October 1997 .....	—	—	—	—	—	—	5,339.4	5,592.0	W	5,813.2	W	9,417.9
<b>Oklahoma</b>												
October 1998 .....	—	—	—	—	—	—	912.2	944.0	NA	3,302.5	2,719.3	6,088.4
September 1998 .....	—	—	—	—	—	—	891.0	923.4	W	W	3,475.2	6,818.7
October 1997 .....	—	—	—	—	—	—	962.6	975.3	W	3,444.1	W	6,890.2
<b>South Dakota</b>												
October 1998 .....	—	—	—	—	—	—	W	14.9	NA	1,158.4	—	1,197.3
September 1998 .....	—	—	—	—	—	—	W	W	NA	1,061.5	—	1,098.6
October 1997 .....	—	—	—	—	—	—	W	17.8	48.2	1,151.5	—	1,199.6
<b>Tennessee</b>												
October 1998 .....	—	—	—	—	—	—	1,589.1	1,627.2	255.6	8,273.4	—	8,529.0
September 1998 .....	—	—	—	—	—	—	1,578.6	1,613.5	244.3	8,461.2	—	8,705.6
October 1997 .....	—	—	—	—	—	—	1,587.7	1,622.6	483.9	8,297.7	—	8,781.6
<b>Wisconsin</b>												
October 1998 .....	505.8	W	W	W	—	1,567.4	757.5	766.3	W	5,609.2	W	6,051.1
September 1998 .....	W	482.3	W	W	—	1,528.9	728.2	737.4	W	5,652.8	W	6,055.9
October 1997 .....	521.7	W	W	W	—	1,566.4	820.0	827.7	W	5,523.9	W	6,076.2
<b>PAD District III</b>												
October 1998 .....	4,220.4	4,232.7	1,709.1	6,407.5	1,017.2	9,133.8	9,742.2	9,969.2	2,684.2	39,312.1	16,323.8	58,320.1
September 1998 .....	W	W	1,946.4	5,604.1	1,983.6	9,534.1	9,792.8	10,062.2	2,858.7	37,771.9	16,365.8	56,996.4
October 1997 .....	4,300.0	4,314.5	W	W	W	8,623.4	9,644.9	10,030.5	3,039.9	37,378.5	18,051.6	58,470.0
<b>Alabama</b>												
October 1998 .....	—	—	—	—	—	—	382.3	430.6	152.8	5,504.9	—	5,657.7
September 1998 .....	—	—	—	—	—	—	381.7	423.2	139.6	5,288.7	—	5,428.3
October 1997 .....	—	—	—	—	—	—	407.5	451.7	154.2	5,212.4	—	5,366.6
<b>Arkansas</b>												
October 1998 .....	—	—	—	—	—	—	222.5	225.2	W	3,456.7	W	3,819.5
September 1998 .....	—	—	—	—	—	—	234.3	237.6	W	3,519.8	W	3,857.8
October 1997 .....	—	—	—	—	—	—	276.1	280.7	W	3,742.9	W	4,012.7
<b>Louisiana</b>												
October 1998 .....	—	W	—	—	W	W	1,155.2	1,176.1	462.8	4,389.9	1,072.9	5,925.6
September 1998 .....	—	W	—	—	W	W	1,094.7	1,114.7	435.8	4,273.3	1,958.9	6,668.0
October 1997 .....	—	W	—	—	W	W	1,111.5	1,116.4	501.4	4,172.1	1,531.8	6,205.2
<b>Mississippi</b>												
October 1998 .....	—	—	—	—	—	—	152.0	174.6	8.7	W	W	3,690.6
September 1998 .....	—	—	—	—	—	—	139.0	160.0	8.2	W	W	4,375.4
October 1997 .....	—	—	—	—	—	—	124.9	154.5	13.4	W	W	3,997.9
<b>New Mexico</b>												
October 1998 .....	—	—	—	—	—	—	608.5	610.5	W	W	—	1,884.8
September 1998 .....	—	—	—	—	—	—	582.6	587.1	W	W	—	1,837.0
October 1997 .....	—	—	—	—	—	—	596.1	609.0	W	W	—	1,950.1
<b>Texas</b>												
October 1998 .....	4,220.4	W	W	6,407.5	W	W	7,221.7	7,352.1	1,876.1	20,953.3	14,512.5	37,341.8
September 1998 .....	W	4,404.0	1,946.4	5,604.1	W	W	7,360.4	7,539.6	2,114.2	19,661.5	13,054.3	34,829.9
October 1997 .....	4,300.0	W	W	W	978.1	W	7,128.8	7,418.3	2,210.8	19,095.8	15,630.9	36,937.5
<b>PAD District IV</b>												
October 1998 .....	—	—	—	—	—	—	2,791.6	2,941.3	W	7,535.0	W	8,639.8
September 1998 .....	—	—	—	—	—	—	2,859.8	3,009.2	1,181.0	7,645.4	—	8,826.4
October 1997 .....	—	—	—	—	—	—	2,565.7	2,705.7	W	7,868.1	W	8,930.1
<b>Colorado</b>												
October 1998 .....	—	—	—	—	—	—	1,965.4	1,971.4	NA	W	W	2,909.8
September 1998 .....	—	—	—	—	—	—	2,018.7	2,023.2	NA	2,699.5	—	2,964.6
October 1997 .....	—	—	—	—	—	—	1,852.4	1,853.9	W	2,649.1	W	2,963.3

See footnotes at end of table.



**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
October 1998 .....	117.9	134.6	196.6	1,224.0	—	1,420.6	—	—	—	—	—	—
September 1998 .....	118.5	135.8	267.5	1,174.8	—	1,442.3	—	—	—	—	—	—
October 1997 .....	121.4	135.6	232.2	1,055.0	—	1,287.2	—	—	—	—	—	—
<b>Montana</b>												
October 1998 .....	W	19.5	—	1,319.9	—	1,319.9	—	—	—	28.5	—	28.5
September 1998 .....	W	19.9	W	W	—	1,404.4	—	—	—	—	—	—
October 1997 .....	W	20.1	W	W	—	1,787.6	—	—	—	17.5	—	17.5
<b>Utah</b>												
October 1998 .....	640.3	762.4	W	W	—	2,227.1	—	—	—	W	—	40.1
September 1998 .....	650.1	771.5	635.9	1,659.8	—	2,295.7	—	—	—	—	—	—
October 1997 .....	525.9	W	W	W	—	2,155.9	—	W	W	W	—	43.6
<b>Wyoming</b>												
October 1998 .....	W	53.4	W	W	—	693.7	—	—	—	—	—	—
September 1998 .....	W	58.8	W	W	—	719.4	—	—	—	—	—	—
October 1997 .....	W	56.0	W	W	—	674.9	—	—	—	—	—	—
<b>PAD District V</b>												
October 1998 .....	3,472.6	3,605.7	4,930.8	W	W	14,489.0	872.7	881.9	W	W	—	3,754.5
September 1998 .....	2,797.8	2,942.1	3,804.6	8,050.3	2,072.7	13,927.6	W	W	2,086.3	377.2	—	2,463.5
October 1997 .....	2,142.0	2,250.2	3,011.3	W	W	11,232.6	1,180.0	1,195.6	W	W	—	3,240.6
<b>Alaska</b>												
October 1998 .....	W	W	W	W	W	393.1	W	W	W	W	—	40.3
September 1998 .....	W	W	99.0	W	W	W	W	W	W	W	—	W
October 1997 .....	W	W	52.0	W	W	295.4	W	W	W	W	—	66.5
<b>Arizona</b>												
October 1998 .....	921.3	933.7	W	W	307.5	1,960.8	479.8	485.8	W	W	—	927.1
September 1998 .....	653.8	659.3	268.2	W	W	1,573.0	W	W	110.5	41.0	—	151.5
October 1997 .....	310.8	319.4	W	W	150.5	1,010.2	313.4	313.9	353.4	28.6	—	382.0
<b>California</b>												
October 1998 .....	—	—	—	W	W	NA	—	—	—	—	—	—
September 1998 .....	—	—	—	W	W	695.4	—	—	—	—	—	—
October 1997 .....	—	—	—	W	W	801.4	—	—	—	—	—	—
<b>Hawaii</b>												
October 1998 .....	239.7	343.4	636.9	95.5	—	732.4	—	—	—	—	—	—
September 1998 .....	221.8	319.6	577.6	95.3	—	672.9	—	—	—	—	—	—
October 1997 .....	225.4	308.3	561.4	91.3	—	652.7	—	—	—	—	—	—
<b>Nevada</b>												
October 1998 .....	116.2	119.5	NA	707.2	168.1	1,264.1	98.7	101.5	850.1	248.0	—	1,098.1
September 1998 .....	W	W	590.6	W	W	1,477.8	W	W	W	W	—	632.3
October 1997 .....	W	W	195.1	544.1	NA	826.5	W	W	842.0	194.5	—	1,036.5
<b>Oregon</b>												
October 1998 .....	460.1	466.2	NA	2,123.7	NA	NA	142.9	143.2	647.7	116.0	—	763.7
September 1998 .....	W	W	W	W	542.9	W	W	W	W	W	—	W
October 1997 .....	354.7	360.1	393.2	2,023.3	259.0	2,675.5	192.0	192.2	459.6	NA	—	815.4
<b>Washington</b>												
October 1998 .....	W	W	W	W	NA	6,178.1	W	W	W	W	—	NA
September 1998 .....	W	W	W	W	452.6	5,562.9	W	W	W	W	—	1,207.0
October 1997 .....	W	W	W	W	193.1	4,970.9	W	W	W	W	—	940.2

See footnotes at end of table.

**Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total	Through Retail Outlets	Total <sup>a</sup>	DTW	Rack	Bulk	Total
<b>Idaho</b>												
October 1998 .....	—	—	—	—	—	—	117.9	134.6	196.6	1,224.0	—	1,420.6
September 1998 .....	—	—	—	—	—	—	118.5	135.8	267.5	1,174.8	—	1,442.3
October 1997 .....	—	—	—	—	—	—	121.4	135.6	232.2	1,055.0	—	1,287.2
<b>Montana</b>												
October 1998 .....	—	—	—	—	—	—	W	19.5	—	1,348.5	—	1,348.5
September 1998 .....	—	—	—	—	—	—	W	19.9	W	W	—	1,404.4
October 1997 .....	—	—	—	—	—	—	W	20.1	W	W	—	1,805.2
<b>Utah</b>												
October 1998 .....	—	—	—	—	—	—	640.3	762.4	610.0	1,657.3	—	2,267.2
September 1998 .....	—	—	—	—	—	—	650.1	771.5	635.9	1,659.8	—	2,295.7
October 1997 .....	—	—	—	—	—	—	525.9	640.1	501.2	1,698.3	—	2,199.5
<b>Wyoming</b>												
October 1998 .....	—	—	—	—	—	—	W	53.4	W	W	—	693.7
September 1998 .....	—	—	—	—	—	—	W	58.8	W	W	—	719.4
October 1997 .....	—	—	—	—	—	—	W	56.0	W	W	—	674.9
<b>PAD District V</b>												
October 1998 .....	9,596.4	9,746.4	22,102.4	W	W	33,519.5	13,941.7	14,234.0	W	14,936.7	W	51,763.0
September 1998 .....	W	W	22,525.1	6,968.1	4,139.9	33,633.1	14,678.4	15,001.7	28,416.0	15,395.6	6,212.6	50,024.2
October 1997 .....	9,795.4	10,015.0	W	5,595.5	W	30,598.0	13,117.4	13,460.8	W	13,467.6	W	45,071.2
<b>Alaska</b>												
October 1998 .....	—	—	—	—	—	—	315.5	319.3	W	300.9	W	433.4
September 1998 .....	—	—	—	—	—	—	288.0	310.4	W	412.6	W	540.1
October 1997 .....	—	—	—	—	—	—	256.9	268.7	W	248.2	W	361.9
<b>Arizona</b>												
October 1998 .....	1,425.7	1,425.7	W	W	—	NA	2,826.8	2,845.3	1,684.7	1,371.5	307.5	3,363.7
September 1998 .....	W	W	1,212.7	W	W	1,516.2	2,807.6	2,821.0	1,591.4	1,314.8	334.6	3,240.8
October 1997 .....	1,680.6	1,686.2	W	W	—	1,186.6	2,304.7	2,319.4	1,452.9	975.3	150.5	2,578.8
<b>California</b>												
October 1998 .....	8,170.7	8,320.6	W	W	W	33,043.8	8,170.7	8,320.6	21,682.6	6,408.2	5,817.5	33,908.3
September 1998 .....	8,862.0	9,029.1	21,312.4	W	W	32,116.9	8,862.0	9,029.1	21,312.4	6,809.6	4,690.4	32,812.3
October 1997 .....	8,114.8	8,328.8	19,220.1	W	W	29,411.4	8,114.8	8,328.8	19,220.1	5,446.7	5,546.0	30,212.8
<b>Hawaii</b>												
October 1998 .....	—	—	—	—	—	—	239.7	343.4	636.9	95.5	—	732.4
September 1998 .....	—	—	—	—	—	—	221.8	319.6	577.6	95.3	—	672.9
October 1997 .....	—	—	—	—	—	—	225.4	308.3	561.4	91.3	—	652.7
<b>Nevada</b>												
October 1998 .....	—	—	—	—	—	—	214.9	221.0	1,239.0	955.2	168.1	2,362.2
September 1998 .....	—	—	—	—	—	—	214.7	223.7	W	838.0	W	2,110.1
October 1997 .....	—	—	—	—	—	—	179.9	190.2	1,037.1	738.5	NA	1,863.0
<b>Oregon</b>												
October 1998 .....	—	—	—	—	—	—	603.1	609.4	1,236.5	2,239.7	NA	3,859.7
September 1998 .....	—	—	—	—	—	—	605.3	615.2	1,096.5	2,238.6	542.9	3,878.0
October 1997 .....	—	—	—	—	—	—	546.7	552.3	852.7	2,379.1	259.0	3,490.9
<b>Washington</b>												
October 1998 .....	—	—	—	—	—	—	1,571.0	1,575.0	3,013.5	3,565.7	NA	7,103.4
September 1998 .....	—	—	—	—	—	—	1,679.1	1,682.7	2,630.5	3,686.8	452.6	6,769.9
October 1997 .....	—	—	—	—	—	—	1,489.0	1,493.0	2,129.6	3,588.5	193.1	5,911.1

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**

(Thousand Gallons per Day)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>United States</b>										
October 1998 .....	157.1	667.7	50,419.7	12,620.5	270.3	2,036.5	396.0	1,383.6	2,687.4	37,776.3
September 1998 .....	165.3	684.3	47,982.9	10,770.3	401.5	1,355.4	NA	913.3	2,293.2	31,792.0
October 1997 .....	175.1	631.9	49,845.9	11,682.3	221.5	2,666.8	307.7	1,578.4	3,484.1	34,680.6
<b>PAD District I</b>										
October 1998 .....	59.5	144.0	12,238.0	2,283.3	68.3	840.7	4.4	82.0	66.7	4,565.9
September 1998 .....	61.9	132.4	11,936.8	2,286.8	96.9	476.7	2.5	W	48.5	4,531.3
October 1997 .....	69.0	123.9	13,054.7	2,306.3	97.5	1,497.9	W	7.1	118.4	4,505.1
<b>Subdistrict IA</b>										
October 1998 .....	W	17.9	1,058.4	166.6	0.2	27.2	—	2.5	W	65.5
September 1998 .....	W	14.3	892.6	116.2	0.7	13.4	W	W	W	47.6
October 1997 .....	W	15.1	992.4	76.0	W	42.0	W	1.2	W	84.4
<b>Connecticut</b>										
October 1998 .....	W	2.3	NA	NA	—	W	—	W	W	W
September 1998 .....	W	2.5	156.3	22.2	W	W	—	W	W	22.0
October 1997 .....	W	1.9	182.6	9.8	W	W	—	W	W	18.0
<b>Maine</b>										
October 1998 .....	W	W	W	W	—	17.3	—	W	—	W
September 1998 .....	W	W	W	W	—	W	—	W	—	—
October 1997 .....	W	W	W	W	—	10.5	—	W	—	W
<b>Massachusetts</b>										
October 1998 .....	W	W	771.0	133.9	W	W	—	W	—	W
September 1998 .....	W	W	645.8	82.8	—	W	—	—	—	W
October 1997 .....	W	6.9	677.5	40.3	—	W	W	W	—	3.9
<b>New Hampshire</b>										
October 1998 .....	W	W	24.0	W	W	W	—	—	NA	14.5
September 1998 .....	W	W	17.1	W	W	W	W	—	NA	18.3
October 1997 .....	W	W	24.0	W	W	W	—	—	—	48.6
<b>Rhode Island</b>										
October 1998 .....	W	NA	W	W	—	W	—	W	—	—
September 1998 .....	W	W	W	W	—	W	—	W	—	—
October 1997 .....	W	W	36.4	W	—	W	—	W	—	W
<b>Vermont</b>										
October 1998 .....	—	W	W	W	NA	—	—	W	NA	W
September 1998 .....	—	W	W	W	NA	—	—	W	NA	W
October 1997 .....	W	—	W	W	—	W	—	W	—	7.3
<b>Subdistrict IB</b>										
October 1998 .....	W	35.9	5,657.8	1,231.2	62.1	613.2	W	11.5	W	1,705.1
September 1998 .....	W	36.2	6,227.5	1,393.3	91.5	327.4	W	4.5	W	1,563.2
October 1997 .....	W	28.6	6,842.7	1,406.0	88.3	849.6	1.5	5.3	W	1,671.3
<b>Delaware</b>										
October 1998 .....	W	0.9	W	NA	—	W	—	—	—	W
September 1998 .....	W	W	W	W	—	W	—	—	—	W
October 1997 .....	—	W	1.0	W	—	W	—	—	—	W
<b>District of Columbia</b>										
October 1998 .....	—	—	—	NA	—	—	—	—	—	—
September 1998 .....	—	—	—	W	—	—	—	—	—	—
October 1997 .....	—	—	—	W	—	—	—	—	—	—
<b>Maryland</b>										
October 1998 .....	W	W	342.2	39.4	W	W	W	—	W	W
September 1998 .....	W	W	W	33.4	—	W	W	—	—	W
October 1997 .....	W	W	392.8	11.4	W	W	W	W	—	W
<b>New Jersey</b>										
October 1998 .....	W	W	2,789.1	545.8	W	358.7	NA	W	W	368.4
September 1998 .....	W	13.7	3,466.2	711.4	W	194.9	W	—	—	377.6
October 1997 .....	W	13.8	3,848.7	733.5	W	402.3	—	1.3	W	347.1
<b>New York</b>										
October 1998 .....	W	9.2	W	278.4	54.1	37.6	W	W	W	224.4
September 1998 .....	W	9.8	1,077.1	314.6	W	21.1	W	2.5	W	262.6
October 1997 .....	W	4.1	1,055.8	300.8	44.9	142.0	W	W	NA	235.6
<b>Pennsylvania</b>										
October 1998 .....	5.0	8.9	1,436.7	299.4	4.3	197.5	W	9.1	W	755.3
September 1998 .....	5.6	9.8	1,299.1	289.9	3.6	100.6	W	2.1	W	674.8
October 1997 .....	6.3	8.5	1,544.4	315.5	9.5	187.2	0.3	3.0	W	807.8

See footnotes at end of table.

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC</b>										
October 1998 .....	36.5	90.2	5,521.8	885.5	6.0	200.3	W	67.9	58.3	2,795.3
September 1998 .....	36.9	81.9	4,816.7	777.3	4.7	135.9	—	32.6	42.7	2,920.5
October 1997 .....	44.9	80.2	5,219.6	824.3	W	606.4	W	0.7	115.8	2,749.4
<b>Florida</b>										
October 1998 .....	22.6	41.8	2,405.2	196.2	W	37.7	—	—	W	567.3
September 1998 .....	20.9	31.0	2,075.6	183.9	W	41.3	—	—	W	476.4
October 1997 .....	25.6	36.2	2,462.0	250.7	W	33.1	W	—	W	626.8
<b>Georgia</b>										
October 1998 .....	3.6	20.5	1,403.4	378.5	0.7	15.3	—	W	W	522.2
September 1998 .....	3.1	20.3	1,141.2	325.2	0.2	W	—	W	W	576.4
October 1997 .....	3.8	18.6	1,146.0	364.5	1.0	30.4	—	—	W	527.8
<b>North Carolina</b>										
October 1998 .....	W	20.0	644.5	132.9	0.5	41.4	—	W	27.6	847.0
September 1998 .....	W	18.2	645.7	125.2	W	34.0	—	W	18.6	992.1
October 1997 .....	W	16.7	581.6	97.5	W	248.6	—	—	73.7	906.1
<b>South Carolina</b>										
October 1998 .....	W	4.3	W	W	0.5	42.2	—	W	W	W
September 1998 .....	W	4.8	W	W	0.3	15.5	—	W	—	W
October 1997 .....	2.9	5.6	W	40.3	1.1	125.0	—	W	W	370.9
<b>Virginia</b>										
October 1998 .....	W	W	948.0	129.2	W	62.3	—	22.5	W	494.3
September 1998 .....	W	5.3	841.9	102.6	W	38.8	—	14.2	W	484.9
October 1997 .....	W	W	931.1	63.3	W	159.0	—	W	12.3	W
<b>West Virginia</b>										
October 1998 .....	W	W	W	W	W	1.4	W	—	—	W
September 1998 .....	W	2.3	W	W	W	W	—	—	—	W
October 1997 .....	W	W	W	8.0	2.2	10.3	W	W	W	W
<b>PAD District II</b>										
October 1998 .....	32.4	195.5	9,053.3	1,200.4	64.3	277.5	W	877.9	891.1	13,571.4
September 1998 .....	32.0	163.8	7,840.3	1,247.8	W	209.6	NA	526.3	561.1	10,482.0
October 1997 .....	35.0	234.4	8,378.5	1,341.1	119.7	685.2	151.5	1,036.5	1,040.1	13,922.6
<b>Illinois</b>										
October 1998 .....	W	12.2	2,111.1	89.9	W	41.8	W	47.1	W	1,225.0
September 1998 .....	W	14.9	2,048.4	114.9	W	W	W	30.8	W	1,305.9
October 1997 .....	W	W	1,916.1	108.4	W	75.1	W	51.6	W	1,500.6
<b>Indiana</b>										
October 1998 .....	W	10.4	905.7	144.3	W	19.2	NA	30.7	W	567.8
September 1998 .....	W	9.8	794.7	NA	W	9.9	NA	17.0	W	511.9
October 1997 .....	W	16.8	941.2	61.8	W	47.8	W	25.9	W	876.3
<b>Iowa</b>										
October 1998 .....	W	22.7	NA	25.2	—	W	NA	60.5	W	1,281.7
September 1998 .....	W	17.6	NA	28.1	—	W	NA	57.5	W	670.1
October 1997 .....	W	9.6	96.7	26.4	—	W	W	98.2	W	901.6
<b>Kansas</b>										
October 1998 .....	W	W	197.5	20.5	—	W	W	124.8	W	4,059.3
September 1998 .....	W	W	122.8	18.5	—	3.3	W	120.3	W	3,319.7
October 1997 .....	W	W	190.0	40.9	—	6.3	W	142.5	W	3,712.3
<b>Kentucky</b>										
October 1998 .....	W	W	675.3	29.6	0.2	W	—	W	W	369.1
September 1998 .....	W	W	529.6	32.5	0.3	15.3	—	W	W	461.2
October 1997 .....	1.2	W	379.5	153.5	1.6	56.8	W	W	W	487.1
<b>Michigan</b>										
October 1998 .....	0.7	W	NA	119.4	NA	21.0	NA	38.8	W	1,433.8
September 1998 .....	W	5.4	624.2	126.3	NA	18.8	W	24.6	W	915.1
October 1997 .....	1.1	40.4	894.6	101.9	2.3	160.6	W	21.3	W	787.2
<b>Minnesota</b>										
October 1998 .....	W	35.7	1,034.6	110.1	W	W	W	101.0	172.6	1,164.1
September 1998 .....	W	W	624.4	132.6	W	W	W	54.0	106.8	668.1
October 1997 .....	W	NA	975.9	NA	W	17.2	W	160.7	192.0	1,630.2
<b>Missouri</b>										
October 1998 .....	W	12.8	418.5	65.5	—	2.9	NA	12.6	W	635.2
September 1998 .....	W	12.7	367.8	67.2	—	W	NA	8.5	W	651.4
October 1997 .....	W	W	329.1	113.8	—	7.0	W	25.8	W	691.3

See footnotes at end of table.

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>										
October 1998 .....	W	W	91.8	17.3	—	—	NA	54.5	W	265.5
September 1998 .....	W	W	94.0	19.8	—	—	W	44.5	—	240.0
October 1997 .....	W	W	89.6	21.0	—	W	W	80.8	—	257.5
<b>North Dakota</b>										
October 1998 .....	W	W	NA	NA	—	W	NA	62.0	W	202.6
September 1998 .....	W	W	12.1	8.3	—	W	NA	26.5	W	152.3
October 1997 .....	W	W	9.6	7.7	—	W	W	98.3	W	214.9
<b>Ohio</b>										
October 1998 .....	10.3	34.1	1,112.0	206.3	7.0	68.3	W	52.1	W	1,124.7
September 1998 .....	10.9	33.1	1,158.7	190.2	W	44.1	W	27.8	W	535.1
October 1997 .....	12.1	41.0	1,193.3	220.4	11.2	146.6	0.2	W	W	1,303.9
<b>Oklahoma</b>										
October 1998 .....	6.6	6.0	459.6	239.2	—	W	—	39.2	W	469.7
September 1998 .....	4.4	6.3	349.0	294.5	—	W	—	1.8	W	455.5
October 1997 .....	4.8	6.0	312.8	228.6	—	7.9	W	79.0	18.1	477.2
<b>South Dakota</b>										
October 1998 .....	W	5.9	20.1	12.8	—	—	W	63.8	W	156.5
September 1998 .....	W	6.8	19.6	11.0	—	—	W	33.1	W	107.2
October 1997 .....	W	W	15.1	15.7	—	W	0.6	104.8	W	204.2
<b>Tennessee</b>										
October 1998 .....	W	19.3	1,105.1	78.2	4.2	71.7	—	W	W	216.7
September 1998 .....	W	17.4	886.4	80.5	W	34.2	—	W	W	214.0
October 1997 .....	W	15.0	952.5	50.2	4.5	144.8	—	—	W	301.8
<b>Wisconsin</b>										
October 1998 .....	—	W	NA	34.4	W	5.6	W	141.5	91.7	399.8
September 1998 .....	W	W	121.4	43.6	W	2.7	W	62.0	58.2	274.4
October 1997 .....	W	14.1	82.5	62.9	W	10.0	4.2	129.1	104.2	576.6
<b>PAD District III</b>										
October 1998 .....	23.9	99.4	11,461.7	6,193.8	W	878.7	W	28.6	1,682.8	16,139.3
September 1998 .....	24.5	110.8	10,737.3	4,049.5	143.0	616.8	—	W	1,647.7	13,728.6
October 1997 .....	24.1	95.6	11,459.8	5,442.1	W	361.1	W	NA	2,214.5	13,266.1
<b>Alabama</b>										
October 1998 .....	W	9.4	161.9	52.5	W	12.2	—	—	W	315.9
September 1998 .....	W	6.0	148.0	42.4	W	8.2	—	—	W	341.9
October 1997 .....	W	8.3	147.5	43.1	W	56.2	—	—	W	329.5
<b>Arkansas</b>										
October 1998 .....	W	7.7	80.3	47.3	—	W	—	—	W	198.3
September 1998 .....	W	10.6	88.0	47.3	—	W	—	—	W	182.8
October 1997 .....	W	W	76.2	73.0	—	W	—	—	W	260.7
<b>Louisiana</b>										
October 1998 .....	W	8.2	2,055.3	1,326.6	W	W	—	—	115.5	1,326.3
September 1998 .....	2.7	5.7	2,295.4	979.3	W	389.5	—	—	155.1	1,261.2
October 1997 .....	2.9	8.7	3,130.1	658.4	W	45.3	—	—	1,005.7	1,448.5
<b>Mississippi</b>										
October 1998 .....	W	W	564.0	384.4	W	W	—	—	W	926.4
September 1998 .....	W	W	534.7	332.1	W	W	—	—	W	487.8
October 1997 .....	W	4.7	754.6	248.1	W	136.0	—	—	W	400.6
<b>New Mexico</b>										
October 1998 .....	W	W	154.1	25.1	—	W	—	W	W	437.9
September 1998 .....	W	W	149.2	24.4	—	W	—	3.5	W	330.7
October 1997 .....	W	W	130.3	NA	W	W	—	W	W	411.1
<b>Texas</b>										
October 1998 .....	10.6	60.9	8,446.2	4,358.0	W	W	W	W	1,442.5	12,934.5
September 1998 .....	11.9	73.3	7,522.0	2,624.0	W	81.0	—	W	1,375.2	11,124.3
October 1997 .....	11.5	48.6	7,221.1	4,386.7	W	119.5	W	W	1,072.7	10,415.6
<b>PAD District IV</b>										
October 1998 .....	10.2	23.5	1,335.1	171.5	W	2.0	29.9	190.2	31.6	1,038.1
September 1998 .....	16.8	32.4	1,271.1	187.6	—	W	NA	86.4	23.1	935.2
October 1997 .....	9.8	25.1	1,204.4	142.4	—	12.7	25.7	239.5	30.4	1,008.4
<b>Colorado</b>										
October 1998 .....	W	W	616.5	122.9	—	W	W	50.5	W	282.4
September 1998 .....	W	W	483.6	136.5	—	—	W	19.5	W	264.2
October 1997 .....	W	W	549.9	W	—	9.8	W	62.0	W	288.7

See footnotes at end of table.

**Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>										
October 1998 .....	W	W	54.4	10.9	—	W	NA	26.8	W	W
September 1998 .....	—	W	59.3	11.9	—	W	W	11.6	W	W
October 1997 .....	W	W	47.0	9.5	—	W	1.9	31.4	W	W
<b>Montana</b>										
October 1998 .....	W	—	72.5	5.1	—	—	W	59.5	W	223.4
September 1998 .....	W	W	77.3	9.2	—	—	W	29.1	W	199.7
October 1997 .....	W	W	66.9	3.2	—	W	1.1	75.5	0.6	202.2
<b>Utah</b>										
October 1998 .....	W	6.6	514.6	30.5	—	W	4.5	NA	W	W
September 1998 .....	W	6.7	571.0	26.8	—	W	W	NA	W	W
October 1997 .....	W	9.3	514.4	24.4	—	W	4.8	22.0	W	W
<b>Wyoming</b>										
October 1998 .....	W	W	77.0	2.0	W	—	W	38.5	7.1	355.9
September 1998 .....	W	W	80.0	3.2	—	W	1.1	17.9	W	315.1
October 1997 .....	W	W	26.3	W	—	—	W	48.7	7.4	371.3
<b>PAD District V</b>										
October 1998 .....	31.0	205.4	16,331.6	2,771.6	W	NA	152.7	204.8	15.3	2,461.6
September 1998 .....	30.1	244.8	16,197.4	2,998.6	W	W	126.0	234.0	12.9	2,114.9
October 1997 .....	37.2	152.9	15,748.4	2,450.5	W	NA	123.5	245.2	80.7	1,978.4
<b>Alaska</b>										
October 1998 .....	W	64.5	2,219.3	189.1	W	—	148.8	163.5	1.5	W
September 1998 .....	W	98.2	2,151.2	316.2	W	—	W	208.3	1.7	W
October 1997 .....	W	14.3	2,241.5	122.1	—	—	109.5	182.3	W	W
<b>Arizona</b>										
October 1998 .....	W	15.6	705.9	251.5	—	W	—	W	—	58.5
September 1998 .....	W	13.9	628.1	97.7	—	W	—	W	—	75.9
October 1997 .....	W	17.3	777.2	135.9	W	W	W	—	—	65.7
<b>California</b>										
October 1998 .....	13.2	76.4	9,970.0	1,441.5	—	14.2	—	—	W	1,582.0
September 1998 .....	13.7	82.3	10,135.2	1,850.9	—	24.0	—	—	W	1,431.3
October 1997 .....	12.2	81.5	9,350.5	1,322.9	—	NA	—	—	W	1,373.5
<b>Hawaii</b>										
October 1998 .....	—	W	488.2	W	—	—	—	—	—	W
September 1998 .....	—	W	W	W	—	—	—	—	—	W
October 1997 .....	—	W	W	W	—	—	—	—	W	W
<b>Nevada</b>										
October 1998 .....	W	12.1	673.6	84.3	—	W	—	W	—	146.7
September 1998 .....	W	12.5	662.0	79.9	—	—	—	—	—	101.6
October 1997 .....	W	14.8	677.0	87.6	—	W	—	2.0	W	96.5
<b>Oregon</b>										
October 1998 .....	—	W	554.7	W	—	W	—	1.9	W	27.9
September 1998 .....	W	W	W	W	—	W	—	W	W	53.8
October 1997 .....	—	11.3	W	45.7	NA	NA	—	15.9	W	W
<b>Washington</b>										
October 1998 .....	W	W	1,719.9	132.9	—	W	NA	37.2	W	567.3
September 1998 .....	W	W	1,648.3	94.9	—	W	W	24.3	W	367.2
October 1997 .....	W	W	1,723.9	W	—	46.9	W	45.0	W	363.8

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**  
(Thousand Gallons per Day)

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale				
United States										
October 1998 .....	15,209.7	84,993.5	6,841.5	13,457.9	22,051.2	98,451.5	3,389.9	25,770.2	25,441.1	124,221.6
September 1998 .....	14,967.9	82,035.4	7,393.3	14,536.2	22,361.2	96,571.6	3,322.4	20,972.1	25,683.6	117,543.7
October 1997 .....	15,272.6	83,428.0	7,779.1	16,529.8	23,051.6	99,957.7	3,119.2	26,090.5	26,170.8	126,048.2
PAD District I										
October 1998 .....	4,522.1	17,726.2	1,065.1	2,115.8	5,587.2	19,842.0	1,065.0	14,733.5	6,652.2	34,575.5
September 1998 .....	4,244.6	17,190.9	1,023.8	3,091.5	5,268.3	20,282.4	1,047.4	11,747.6	6,315.7	32,030.0
October 1997 .....	4,395.7	17,920.7	1,340.3	2,478.9	5,736.0	20,399.6	864.2	13,808.9	6,600.2	34,208.6
Subdistrict IA										
October 1998 .....	W	W	W	W	298.8	1,245.5	32.5	2,040.7	331.3	3,286.3
September 1998 .....	W	W	W	W	310.3	1,285.1	31.7	1,493.0	342.1	2,778.1
October 1997 .....	W	W	W	W	324.0	1,767.5	24.2	2,101.5	348.3	3,869.0
Connecticut										
October 1998 .....	W	W	—	W	W	362.0	W	507.8	137.3	869.8
September 1998 .....	W	W	—	W	W	367.6	W	429.5	145.0	797.1
October 1997 .....	W	W	—	W	W	397.9	W	551.6	147.9	949.6
Maine										
October 1998 .....	W	W	—	W	W	171.8	—	304.8	W	476.7
September 1998 .....	W	W	W	W	13.0	167.1	—	232.2	13.0	399.3
October 1997 .....	W	W	W	W	W	195.8	W	308.2	19.3	503.9
Massachusetts										
October 1998 .....	104.8	W	W	W	W	459.4	W	725.1	132.5	1,184.5
September 1998 .....	102.4	W	W	W	W	472.8	W	463.1	128.3	935.9
October 1997 .....	102.8	W	W	W	W	916.8	W	749.0	127.5	1,665.8
New Hampshire										
October 1998 .....	W	21.5	W	W	7.7	W	NA	W	W	69.2
September 1998 .....	W	21.5	W	W	9.1	W	NA	W	10.9	W
October 1997 .....	9.6	31.9	W	W	W	W	W	W	11.1	56.4
Rhode Island										
October 1998 .....	W	W	—	W	W	217.2	W	452.6	21.2	669.8
September 1998 .....	W	W	—	W	W	242.5	W	323.7	25.2	566.2
October 1997 .....	27.1	W	—	W	27.1	203.8	—	460.5	27.1	664.3
Vermont										
October 1998 .....	W	10.1	W	W	W	W	W	W	22.2	16.2
September 1998 .....	W	8.4	W	W	13.4	W	NA	W	19.7	W
October 1997 .....	11.9	14.5	W	W	W	W	W	W	15.4	29.0
Subdistrict IB										
October 1998 .....	W	W	W	W	1,691.8	7,396.1	401.8	10,292.1	2,093.5	17,688.1
September 1998 .....	W	W	W	W	1,683.4	8,568.4	411.5	8,296.4	2,094.9	16,864.8
October 1997 .....	W	W	W	W	1,902.3	7,710.5	431.4	8,690.4	2,333.7	16,400.8
Delaware										
October 1998 .....	W	198.7	W	W	20.9	W	W	W	W	W
September 1998 .....	22.6	W	—	—	22.6	W	NA	W	39.9	285.4
October 1997 .....	27.5	W	W	W	W	W	W	W	W	W
District of Columbia										
October 1998 .....	NA	W	—	—	NA	W	W	W	W	W
September 1998 .....	NA	20.6	—	—	NA	20.6	—	NA	NA	NA
October 1997 .....	W	W	—	—	W	W	W	W	W	W
Maryland										
October 1998 .....	201.9	475.3	NA	26.0	203.8	501.3	54.8	338.3	258.7	839.5
September 1998 .....	W	W	W	14.7	216.6	W	71.8	W	288.4	867.6
October 1997 .....	W	522.6	W	44.5	307.7	567.1	32.5	431.5	340.1	998.6
New Jersey										
October 1998 .....	387.0	2,384.7	107.0	202.0	494.1	2,586.7	91.6	5,195.5	585.7	7,782.2
September 1998 .....	370.7	2,283.3	115.7	1,203.5	486.4	3,486.8	137.7	3,762.8	624.1	7,249.6
October 1997 .....	400.8	2,654.4	148.0	161.6	548.8	2,816.0	117.8	3,826.5	666.6	6,642.5
New York										
October 1998 .....	301.5	W	87.1	W	388.5	1,228.7	105.2	2,007.4	493.7	3,236.1
September 1998 .....	280.1	W	92.1	W	372.2	1,260.6	86.2	2,077.8	458.4	3,338.3
October 1997 .....	266.3	W	15.3	W	281.6	1,169.1	133.5	2,014.8	415.1	3,183.9
Pennsylvania										
October 1998 .....	554.8	2,837.4	26.2	18.7	581.0	2,856.1	138.4	2,618.9	719.4	5,475.0
September 1998 .....	557.9	W	24.4	W	582.3	2,956.1	98.5	2,123.6	680.8	5,079.7
October 1997 .....	591.9	W	137.7	W	729.6	2,963.4	125.4	2,303.0	854.9	5,266.5

See footnotes at end of table.

**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale				
Subdistrict IC										
October 1998 .....	2,779.9	9,501.9	816.8	1,698.5	3,596.7	11,200.4	630.7	2,400.7	4,227.4	13,601.1
September 1998 .....	2,512.1	8,864.9	762.4	1,564.0	3,274.6	10,428.9	604.2	1,958.2	3,878.7	12,387.2
October 1997 .....	2,576.0	9,302.8	933.7	1,618.9	3,509.7	10,921.6	408.6	3,017.1	3,918.3	13,938.7
Florida										
October 1998 .....	1,078.3	2,495.9	301.5	549.9	1,379.9	3,045.8	76.9	488.3	1,456.8	3,534.1
September 1998 .....	1,003.2	2,193.9	227.5	477.3	1,230.7	2,671.2	74.1	418.6	1,304.8	3,089.8
October 1997 .....	992.1	2,253.5	265.4	513.6	1,257.5	2,767.1	50.2	561.7	1,307.7	3,328.8
Georgia										
October 1998 .....	728.5	2,016.7	172.0	331.1	900.5	2,347.7	35.1	375.3	935.6	2,723.1
September 1998 .....	667.6	1,921.7	176.3	355.9	843.8	2,277.6	53.8	253.0	897.6	2,530.6
October 1997 .....	689.3	1,950.5	175.5	276.8	864.7	2,227.3	19.8	419.5	884.5	2,646.8
North Carolina										
October 1998 .....	396.7	1,902.6	123.5	433.1	520.2	2,335.7	133.1	487.4	653.4	2,823.1
September 1998 .....	310.2	1,763.8	125.0	333.7	435.2	2,097.6	164.3	398.8	599.5	2,496.3
October 1997 .....	331.2	1,898.5	134.6	420.2	465.8	2,318.7	155.4	671.8	621.2	2,990.5
South Carolina										
October 1998 .....	268.5	970.5	W	121.4	W	1,091.9	W	216.7	370.3	1,308.6
September 1998 .....	241.5	962.3	W	121.1	W	1,083.3	W	199.0	337.3	1,282.3
October 1997 .....	W	928.6	W	121.6	281.7	1,050.2	37.2	284.6	318.9	1,334.8
Virginia										
October 1998 .....	223.3	1,866.9	154.4	181.1	377.6	2,048.0	136.8	663.2	514.5	2,711.2
September 1998 .....	209.6	1,793.9	141.9	193.6	351.5	1,987.5	169.3	536.2	520.8	2,523.7
October 1997 .....	221.4	2,009.1	176.5	221.6	397.8	2,230.6	54.9	832.3	452.7	3,062.9
West Virginia										
October 1998 .....	84.6	249.4	W	81.9	W	331.3	W	169.7	296.9	501.1
September 1998 .....	80.1	229.3	W	82.4	W	311.7	W	152.7	218.7	464.4
October 1997 .....	W	262.6	W	65.1	242.1	327.7	91.2	247.1	333.3	574.8
PAD District II										
October 1998 .....	5,714.7	27,130.5	2,299.4	3,014.3	8,014.1	30,144.7	NA	5,738.6	9,907.8	35,883.4
September 1998 .....	6,089.1	26,351.3	2,640.1	3,073.7	8,729.2	29,425.0	NA	5,141.0	10,535.7	34,566.1
October 1997 .....	5,942.8	26,527.1	2,633.9	3,535.6	8,576.7	30,062.7	1,785.4	7,858.9	10,362.1	37,921.5
Illinois										
October 1998 .....	670.3	3,147.3	137.3	218.4	807.6	3,365.6	NA	1,366.9	1,161.7	4,732.6
September 1998 .....	928.8	2,892.6	118.1	167.3	1,046.9	3,059.9	NA	1,035.4	1,413.6	4,095.4
October 1997 .....	717.0	2,366.0	98.7	292.1	815.6	2,658.1	197.2	1,975.7	1,012.8	4,633.8
Indiana										
October 1998 .....	1,006.5	2,538.2	W	386.0	W	2,924.2	W	468.0	1,250.0	3,392.2
September 1998 .....	1,062.2	2,565.5	W	303.1	W	2,868.6	W	479.9	1,340.9	3,348.5
October 1997 .....	969.1	1,848.3	224.7	502.9	1,193.8	2,351.3	350.4	646.9	1,544.2	2,998.2
Iowa										
October 1998 .....	NA	1,873.9	W	99.0	W	1,972.9	W	246.2	NA	2,219.1
September 1998 .....	NA	1,738.2	W	102.0	W	1,840.2	W	212.5	NA	2,052.7
October 1997 .....	148.0	2,060.6	W	106.5	W	2,167.1	W	271.4	185.3	2,438.5
Kansas										
October 1998 .....	192.6	1,915.7	W	85.0	W	2,000.7	W	136.5	322.6	2,137.2
September 1998 .....	170.3	1,888.3	W	156.4	W	2,044.7	W	116.6	280.9	2,161.2
October 1997 .....	150.3	1,782.9	W	149.4	W	1,932.2	W	176.2	312.1	2,108.5
Kentucky										
October 1998 .....	W	1,142.5	73.5	210.1	W	1,352.6	W	475.6	731.0	1,828.2
September 1998 .....	343.5	1,193.1	92.6	228.0	436.1	1,421.0	265.3	483.1	701.4	1,904.2
October 1997 .....	381.2	1,022.2	343.0	290.6	724.2	1,312.8	71.4	594.0	795.6	1,906.8
Michigan										
October 1998 .....	547.1	1,747.7	125.9	45.2	673.0	1,792.9	50.6	487.6	723.5	2,280.5
September 1998 .....	537.8	1,665.1	132.3	52.9	670.1	1,718.0	63.2	447.1	733.3	2,165.1
October 1997 .....	582.9	1,953.4	97.0	149.1	679.9	2,102.5	106.2	809.1	786.2	2,911.6
Minnesota										
October 1998 .....	157.6	1,724.7	3.0	239.0	160.6	1,963.6	NA	390.7	NA	2,354.4
September 1998 .....	W	1,624.2	W	333.0	167.0	1,957.2	NA	336.1	W	2,293.4
October 1997 .....	173.4	1,861.1	18.5	333.0	191.9	2,194.1	171.4	539.5	363.3	2,733.6
Missouri										
October 1998 .....	191.9	1,905.2	W	107.8	W	2,012.9	W	105.5	263.7	2,118.5
September 1998 .....	W	1,791.7	15.9	142.2	W	1,933.8	W	117.0	290.5	2,050.8
October 1997 .....	W	1,939.9	17.1	W	W	W	W	W	342.8	2,241.2

See footnotes at end of table.



**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale				
<b>Nebraska</b>										
October 1998 .....	28.9	1,141.6	NA	270.4	NA	1,412.0	NA	75.6	W	1,487.6
September 1998 .....	W	1,123.9	W	270.4	257.8	1,394.2	NA	91.6	259.9	1,485.9
October 1997 .....	27.5	1,060.4	W	150.2	W	1,210.5	W	104.5	176.9	1,315.0
<b>North Dakota</b>										
October 1998 .....	21.2	612.1	—	NA	21.2	678.9	W	71.1	W	750.0
September 1998 .....	W	677.6	—	NA	W	749.4	NA	58.0	W	807.3
October 1997 .....	W	617.7	W	W	16.3	W	W	W	W	770.8
<b>Ohio</b>										
October 1998 .....	1,334.1	2,177.6	W	379.9	W	2,557.5	W	947.8	2,070.9	3,505.4
September 1998 .....	1,372.3	2,067.6	W	288.2	W	2,355.8	W	922.9	2,083.3	3,278.7
October 1997 .....	W	2,227.0	W	315.6	1,990.8	2,542.6	168.7	1,096.9	2,159.5	3,639.5
<b>Oklahoma</b>										
October 1998 .....	W	2,654.4	924.0	266.3	W	2,920.7	W	75.4	1,140.0	2,996.1
September 1998 .....	W	2,490.5	1,076.1	W	W	W	W	W	1,319.8	2,850.9
October 1997 .....	209.2	3,043.7	W	282.6	W	3,326.3	W	109.3	1,331.7	3,435.6
<b>South Dakota</b>										
October 1998 .....	W	664.6	—	8.9	W	673.5	W	31.3	15.4	704.8
September 1998 .....	W	636.8	—	W	W	W	W	W	28.0	675.3
October 1997 .....	W	866.6	—	15.8	W	882.5	W	67.0	W	949.4
<b>Tennessee</b>										
October 1998 .....	625.1	2,237.4	W	443.9	W	2,681.3	W	324.6	877.5	3,006.0
September 1998 .....	614.3	2,277.1	265.7	432.5	880.1	2,709.6	NA	281.6	904.2	2,991.2
October 1997 .....	567.1	2,127.4	243.2	472.9	810.4	2,600.3	33.3	649.1	843.6	3,249.5
<b>Wisconsin</b>										
October 1998 .....	W	1,647.6	W	187.6	311.5	1,835.3	NA	535.6	344.2	2,370.9
September 1998 .....	W	1,719.3	W	202.0	284.3	1,921.3	NA	484.2	316.7	2,405.5
October 1997 .....	280.1	1,749.8	—	259.5	280.1	2,009.4	49.3	580.2	329.4	2,589.6
<b>PAD District III</b>										
October 1998 .....	1,696.5	21,557.6	1,939.6	5,707.7	3,636.1	27,265.3	195.8	4,906.5	3,831.9	32,171.8
September 1998 .....	1,576.0	20,428.7	1,831.5	5,873.9	3,407.5	26,302.6	178.6	3,632.2	3,586.1	29,934.8
October 1997 .....	1,853.2	22,926.9	2,028.2	7,860.5	3,881.4	30,787.5	227.1	4,087.1	4,108.5	34,874.5
<b>Alabama</b>										
October 1998 .....	214.5	1,339.9	185.2	168.6	399.7	1,508.5	43.8	297.3	443.5	1,805.8
September 1998 .....	196.9	1,242.9	206.3	171.7	403.2	1,414.6	38.3	248.6	441.6	1,663.3
October 1997 .....	185.6	1,258.8	143.9	339.4	329.5	1,598.2	27.5	390.4	357.0	1,988.5
<b>Arkansas</b>										
October 1998 .....	191.6	1,348.1	W	635.9	W	1,984.1	W	NA	242.7	2,066.9
September 1998 .....	197.2	1,260.6	W	609.2	W	1,869.8	W	NA	239.1	1,935.7
October 1997 .....	208.7	1,283.3	W	633.5	W	1,916.8	W	104.7	229.9	2,021.5
<b>Louisiana</b>										
October 1998 .....	W	1,434.8	575.1	2,869.2	W	4,304.0	W	994.6	782.1	5,298.5
September 1998 .....	W	1,573.6	430.1	2,406.9	W	3,980.6	W	627.3	620.5	4,607.8
October 1997 .....	W	2,062.2	507.2	3,305.8	W	5,368.0	W	1,496.3	692.3	6,864.3
<b>Mississippi</b>										
October 1998 .....	W	1,272.5	W	399.9	W	1,672.4	W	168.4	230.2	1,840.8
September 1998 .....	W	1,392.0	W	503.2	W	1,895.1	W	209.3	204.7	2,104.4
October 1997 .....	143.6	1,589.1	W	1,154.1	W	2,743.2	W	236.5	222.3	2,979.7
<b>New Mexico</b>										
October 1998 .....	117.4	908.4	—	99.7	117.4	1,008.1	—	—	117.4	1,008.1
September 1998 .....	109.7	835.2	—	98.5	109.7	933.7	—	—	109.7	933.7
October 1997 .....	W	920.3	W	77.8	151.8	998.1	—	—	151.8	998.1
<b>Texas</b>										
October 1998 .....	848.4	15,253.9	1,085.5	1,534.5	1,933.8	16,788.4	NA	3,363.3	2,016.0	20,151.7
September 1998 .....	782.6	14,124.4	1,117.7	2,084.4	1,900.3	16,208.8	NA	2,481.2	1,970.4	18,690.0
October 1997 .....	1,028.1	15,813.2	1,261.5	2,349.9	2,289.5	18,163.1	165.8	1,859.2	2,455.3	20,022.3
<b>PAD District IV</b>										
October 1998 .....	929.8	4,025.6	555.8	331.5	1,485.6	4,357.0	NA	NA	1,621.9	4,367.5
September 1998 .....	939.0	4,239.3	523.5	370.2	1,462.5	4,609.5	NA	NA	1,590.8	4,618.1
October 1997 .....	864.9	3,828.2	W	W	W	W	W	W	1,475.0	4,244.0
<b>Colorado</b>										
October 1998 .....	W	1,286.0	W	9.8	333.0	1,295.8	NA	NA	333.6	1,306.2
September 1998 .....	W	1,322.9	W	12.6	340.2	1,335.5	NA	NA	340.8	1,344.1
October 1997 .....	136.0	1,203.4	W	W	W	W	W	W	311.4	1,232.0

See footnotes at end of table.

**Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes  
by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total		Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale				
Idaho										
October 1998 .....	W	621.9	W	162.4	139.2	784.3	NA	—	142.2	784.3
September 1998 .....	W	600.7	W	171.0	109.0	771.7	NA	—	111.7	771.7
October 1997 .....	W	546.2	W	177.9	W	724.1	W	—	121.5	724.1
Montana										
October 1998 .....	168.4	W	—	W	168.4	635.8	NA	—	168.8	635.8
September 1998 .....	161.2	W	—	W	161.2	655.2	NA	—	161.6	655.2
October 1997 .....	W	W	—	W	W	727.4	W	—	159.1	727.4
Utah										
October 1998 .....	W	748.3	W	147.1	338.1	895.4	NA	—	470.4	895.4
September 1998 .....	306.1	828.6	30.2	170.9	336.3	999.5	NA	—	460.8	999.5
October 1997 .....	260.2	603.9	W	198.9	W	802.7	W	—	347.3	802.7
Wyoming										
October 1998 .....	W	W	W	W	506.9	745.7	—	—	506.9	745.7
September 1998 .....	W	W	W	W	515.9	847.6	—	—	515.9	847.6
October 1997 .....	W	W	W	W	535.6	757.8	—	—	535.6	757.8
PAD District V										
October 1998 .....	2,346.5	14,553.6	981.5	2,288.7	3,328.1	16,842.3	99.1	381.1	3,427.2	17,223.5
September 1998 .....	2,119.3	13,825.3	1,374.4	2,126.8	3,493.7	15,952.1	161.7	442.6	3,655.4	16,394.7
October 1997 .....	2,216.0	12,225.0	W	W	W	W	W	W	3,624.9	14,799.5
Alaska										
October 1998 .....	W	W	W	W	257.3	W	W	177.8	353.8	405.8
September 1998 .....	W	W	W	W	206.9	W	W	W	361.5	665.9
October 1997 .....	W	NA	W	W	W	W	125.7	288.2	176.3	529.6
Arizona										
October 1998 .....	W	W	W	W	404.7	1,095.3	—	—	404.7	1,095.3
September 1998 .....	W	W	W	W	361.7	999.5	—	—	361.7	999.5
October 1997 .....	W	W	W	W	414.6	968.3	—	—	414.6	968.3
California										
October 1998 .....	1,770.1	9,591.2	NA	W	1,772.8	W	—	W	1,772.8	10,278.3
September 1998 .....	W	9,279.6	W	W	1,647.6	W	—	W	1,647.6	9,858.1
October 1997 .....	W	7,733.9	W	W	1,648.1	W	—	W	1,648.1	8,153.0
Hawaii										
October 1998 .....	42.2	69.8	W	89.6	W	159.4	—	—	W	159.4
September 1998 .....	40.6	56.5	W	90.6	W	147.1	—	—	W	147.1
October 1997 .....	W	60.9	W	98.5	W	159.5	—	—	W	159.5
Nevada										
October 1998 .....	W	603.7	W	5.0	91.3	608.7	—	—	91.3	608.7
September 1998 .....	W	576.0	W	4.8	82.7	580.8	—	—	82.7	580.8
October 1997 .....	W	W	W	W	87.5	545.5	—	—	W	545.5
Oregon										
October 1998 .....	55.2	NA	NA	456.0	NA	NA	—	—	W	NA
September 1998 .....	47.3	1,052.1	NA	471.4	NA	1,523.5	—	—	W	1,523.5
October 1997 .....	W	1,079.8	W	542.7	244.2	1,622.5	—	—	244.2	1,622.5
Washington										
October 1998 .....	W	W	116.8	932.4	W	W	W	W	271.2	3,099.5
September 1998 .....	99.8	W	W	722.1	W	W	W	W	545.6	2,619.9
October 1997 .....	107.2	1,929.4	W	865.7	W	2,795.1	W	26.1	668.0	2,821.1

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 47. Refiner Residual Fuel Oil and No. 4 Fuel Volumes by PAD District**  
(Thousand Gallons per Day)

Geographic Area Month	Residual Fuel Oil						No. 4 Fuel <sup>a</sup>	
	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Total		Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale		
United States								
October 1998 .....	4,062.3	5,386.1	10,805.3	11,859.7	14,867.6	17,245.8	246.6	147.6
September 1998 ..	3,204.8	5,268.7	9,775.0	12,167.5	12,979.8	17,436.2	254.2	114.8
October 1997 .....	2,898.8	5,740.6	12,237.8	6,694.4	15,136.6	12,435.0	263.9	85.4
PAD District I								
October 1998 .....	2,862.2	4,282.0	4,596.0	5,570.5	7,458.2	9,852.5	W	51.9
September 1998 ..	2,149.5	3,454.5	4,371.3	5,160.3	6,520.8	8,614.8	W	34.7
October 1997 .....	1,812.1	4,294.5	6,685.4	1,352.3	8,497.5	5,646.8	W	73.0
Subdistrict IA								
October 1998 .....	W	W	W	W	W	W	W	W
September 1998 ..	W	W	W	W	W	W	W	W
October 1997 .....	W	W	W	W	W	W	W	W
Subdistrict IB								
October 1998 .....	2,286.0	1,448.3	1,983.5	1,935.2	4,269.5	3,383.5	W	46.2
September 1998 ..	1,968.0	W	2,185.0	W	4,153.0	3,280.1	W	W
October 1997 .....	1,448.2	2,720.1	2,901.9	781.6	4,350.1	3,501.7	W	64.5
Subdistrict IC								
October 1998 .....	W	W	W	W	W	W	W	W
September 1998 ..	W	W	W	1,797.3	W	W	W	—
October 1997 .....	W	W	W	W	W	W	12.7	W
PAD District II								
October 1998 .....	W	W	W	W	50.9	265.5	W	W
September 1998 ..	W	W	W	252.5	30.3	W	W	—
October 1997 .....	W	W	W	W	72.0	431.3	6.0	W
PAD District III								
October 1998 .....	—	569.1	W	4,789.7	W	5,358.8	—	W
September 1998 ..	—	W	3,055.2	W	3,055.2	5,706.1	W	W
October 1997 .....	W	865.4	W	3,000.6	2,796.7	3,866.0	—	—
PAD District IV								
October 1998 .....	—	W	W	W	W	63.8	—	—
September 1998 ..	W	W	W	W	2.7	W	—	—
October 1997 .....	—	W	14.7	W	14.7	59.7	—	—
PAD District V								
October 1998 .....	W	461.6	W	NA	3,320.9	NA	W	W
September 1998 ..	1,049.1	629.7	2,321.7	1,711.1	3,370.8	2,340.8	W	W
October 1997 .....	W	440.7	W	NA	3,755.7	NA	W	W

Dash (–) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Prime Supplier  
Sales Volumes  
of Petroleum  
Products for  
Local  
Consumption**

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**  
(Thousand Gallons per Day)

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>United States</b>								
October 1998 .....	169,016.1	9,798.7	76,933.4	255,748.1	23,828.6	1,522.6	15,433.6	40,784.8
September 1998 .....	168,067.6	8,269.2	77,348.2	253,685.0	23,208.0	1,265.4	15,453.5	39,926.8
October 1997 .....	167,136.9	8,906.0	77,213.8	253,256.7	23,714.2	1,459.3	15,757.0	40,930.5
<b>PAD District I</b>								
October 1998 .....	51,331.0	—	31,326.0	82,657.0	9,237.7	—	6,069.2	15,306.9
September 1998 .....	50,505.0	—	31,202.3	81,707.3	8,954.8	—	6,104.3	15,059.1
October 1997 .....	51,640.6	—	32,115.0	83,755.5	9,422.1	—	6,409.4	15,831.5
<b>Subdistrict IA</b>								
October 1998 .....	1,800.0	—	10,397.5	12,197.6	200.8	—	1,627.8	1,828.6
September 1998 .....	1,758.3	—	10,285.6	12,043.9	212.1	—	1,619.5	1,831.6
October 1997 .....	1,776.8	—	10,989.1	12,765.9	237.4	—	1,757.1	1,994.5
<b>Connecticut</b>								
October 1998 .....	—	—	2,695.2	2,695.2	—	—	468.2	468.2
September 1998 .....	—	—	2,632.3	2,632.3	—	—	465.7	465.7
October 1997 .....	—	—	2,713.1	2,713.1	—	—	469.3	469.3
<b>Maine</b>								
October 1998 .....	888.3	—	1,021.1	1,909.4	86.1	—	106.5	192.6
September 1998 .....	881.0	—	1,096.6	1,977.6	93.8	—	112.1	205.8
October 1997 .....	875.4	—	1,084.6	1,960.0	107.9	—	117.4	225.3
<b>Massachusetts</b>								
October 1998 .....	W	—	4,943.6	4,943.7	—	—	787.9	787.9
September 1998 .....	W	—	4,797.0	4,797.3	—	—	778.4	778.4
October 1997 .....	—	—	5,388.6	5,388.6	—	—	890.2	890.2
<b>New Hampshire</b>								
October 1998 .....	330.7	—	749.0	1,079.7	43.3	—	107.2	150.5
September 1998 .....	331.0	—	764.1	1,095.2	49.9	—	104.4	154.2
October 1997 .....	310.7	—	789.0	1,099.7	47.3	—	110.0	157.3
<b>Rhode Island</b>								
October 1998 .....	—	—	988.7	988.7	—	—	157.9	157.9
September 1998 .....	—	—	995.5	995.5	—	—	159.0	159.0
October 1997 .....	—	—	1,013.7	1,013.7	—	—	170.2	170.2
<b>Vermont</b>								
October 1998 .....	580.9	—	—	580.9	71.5	—	—	71.5
September 1998 .....	546.0	—	—	546.0	68.4	—	—	68.4
October 1997 .....	590.7	—	—	590.7	82.2	—	—	82.2
<b>Subdistrict IB</b>								
October 1998 .....	13,327.8	—	17,441.1	30,769.0	1,508.5	—	3,587.8	5,096.3
September 1998 .....	13,427.7	—	17,427.8	30,855.4	1,488.9	—	3,633.4	5,122.3
October 1997 .....	13,990.3	—	17,735.8	31,726.1	1,633.1	—	3,786.5	5,419.5
<b>Delaware</b>								
October 1998 .....	—	—	757.5	757.5	—	—	170.4	170.4
September 1998 .....	—	—	764.7	764.7	—	—	172.8	172.8
October 1997 .....	—	—	700.4	700.4	—	—	176.7	176.7
<b>District of Columbia</b>								
October 1998 .....	—	—	122.5	122.5	—	—	NA	NA
September 1998 .....	—	—	120.7	120.7	—	—	NA	NA
October 1997 .....	—	—	143.6	143.6	—	—	84.5	84.5
<b>Maryland</b>								
October 1998 .....	459.9	—	3,028.0	3,487.9	71.3	—	772.2	843.5
September 1998 .....	481.4	—	2,933.9	3,415.3	74.9	—	776.7	851.7
October 1997 .....	W	—	W	3,603.5	81.6	—	852.9	934.5
<b>New Jersey</b>								
October 1998 .....	—	—	6,800.0	6,800.0	—	—	1,233.6	1,233.6
September 1998 .....	—	—	6,919.9	6,919.9	—	—	1,263.5	1,263.5
October 1997 .....	W	—	W	6,955.3	—	—	1,251.6	1,251.6
<b>New York</b>								
October 1998 .....	5,409.4	—	4,372.0	9,781.4	491.2	—	813.2	1,304.5
September 1998 .....	5,364.7	—	4,394.4	9,759.0	484.4	—	834.4	1,318.8
October 1997 .....	5,459.9	—	4,536.7	9,996.6	465.4	—	866.6	1,332.0
<b>Pennsylvania</b>								
October 1998 .....	7,458.5	—	2,361.1	9,819.7	946.0	—	524.1	1,470.1
September 1998 .....	7,581.6	—	2,294.2	9,875.9	929.5	—	511.0	1,440.5
October 1997 .....	8,024.0	—	2,302.7	10,326.7	1,086.1	—	554.1	1,640.2

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>United States</b>								
October 1998 .....	37,921.6	1,700.6	25,310.6	64,932.9	230,766.3	13,021.9	117,677.6	361,465.8
September 1998 .....	38,320.3	1,185.2	25,438.6	64,944.1	229,595.8	10,719.8	118,240.3	358,555.9
October 1997 .....	33,555.4	1,214.3	22,475.4	57,245.2	224,406.5	11,579.6	115,446.2	351,432.4
<b>PAD District I</b>								
October 1998 .....	15,335.3	—	13,245.3	28,580.6	75,904.0	—	50,640.5	126,544.5
September 1998 .....	15,137.2	—	13,379.7	28,516.9	74,597.0	—	50,686.3	125,283.2
October 1997 .....	13,532.6	—	12,080.8	25,613.4	74,595.3	—	50,605.2	125,200.5
<b>Subdistrict IA</b>								
October 1998 .....	299.2	—	2,843.5	3,142.7	2,300.0	—	14,868.8	17,168.9
September 1998 .....	300.5	—	2,886.3	3,186.8	2,270.8	—	14,791.4	17,062.3
October 1997 .....	270.5	—	2,615.8	2,886.3	2,284.6	—	15,362.0	17,646.6
<b>Connecticut</b>								
October 1998 .....	—	—	820.2	820.2	—	—	3,983.6	3,983.6
September 1998 .....	—	—	812.9	812.9	—	—	3,911.0	3,911.0
October 1997 .....	—	—	722.2	722.2	—	—	3,904.5	3,904.5
<b>Maine</b>								
October 1998 .....	120.9	—	190.4	311.3	1,095.4	—	1,318.0	2,413.4
September 1998 .....	125.0	—	208.1	333.0	1,099.7	—	1,416.7	2,516.4
October 1997 .....	112.5	—	172.8	285.3	1,095.9	—	1,374.8	2,470.7
<b>Massachusetts</b>								
October 1998 .....	—	—	1,408.0	1,408.0	W	—	7,139.5	7,139.7
September 1998 .....	—	—	1,420.0	1,420.0	W	—	6,995.3	6,995.6
October 1997 .....	—	—	1,322.6	1,322.6	—	—	7,601.4	7,601.4
<b>New Hampshire</b>								
October 1998 .....	56.5	—	155.5	212.0	430.4	—	1,011.7	1,442.2
September 1998 .....	58.6	—	165.7	224.3	439.5	—	1,034.2	1,473.7
October 1997 .....	50.1	—	145.9	196.0	408.0	—	1,045.0	1,453.0
<b>Rhode Island</b>								
October 1998 .....	—	—	269.4	269.4	—	—	1,416.0	1,416.0
September 1998 .....	—	—	279.6	279.6	—	—	1,434.2	1,434.2
October 1997 .....	—	—	252.4	252.4	—	—	1,436.3	1,436.3
<b>Vermont</b>								
October 1998 .....	121.8	—	—	121.8	774.1	—	—	774.1
September 1998 .....	116.9	—	—	116.9	731.3	—	—	731.3
October 1997 .....	107.8	—	—	107.8	780.7	—	—	780.7
<b>Subdistrict IB</b>								
October 1998 .....	2,811.8	—	8,932.0	11,743.8	17,648.1	—	29,960.9	47,609.0
September 1998 .....	2,811.6	—	9,012.3	11,823.9	17,728.2	—	30,073.5	47,801.6
October 1997 .....	2,538.1	—	8,192.0	10,730.0	18,161.5	—	29,714.2	47,875.6
<b>Delaware</b>								
October 1998 .....	—	—	186.4	186.4	—	—	1,114.3	1,114.3
September 1998 .....	—	—	193.1	193.1	—	—	1,130.6	1,130.6
October 1997 .....	—	—	161.4	161.4	—	—	1,038.5	1,038.5
<b>District of Columbia</b>								
October 1998 .....	—	—	NA	NA	—	—	357.2	357.2
September 1998 .....	—	—	NA	NA	—	—	357.5	357.5
October 1997 .....	—	—	158.8	158.8	—	—	386.9	386.9
<b>Maryland</b>								
October 1998 .....	115.6	—	1,286.6	1,402.3	646.8	—	5,086.9	5,733.6
September 1998 .....	122.7	—	1,291.0	1,413.7	679.0	—	5,001.7	5,680.6
October 1997 .....	104.5	—	1,199.9	1,304.5	W	—	W	5,842.4
<b>New Jersey</b>								
October 1998 .....	—	—	3,340.5	3,340.5	—	—	11,374.1	11,374.1
September 1998 .....	—	—	3,353.4	3,353.4	—	—	11,536.8	11,536.8
October 1997 .....	—	—	3,030.6	3,030.6	W	—	W	11,237.6
<b>New York</b>								
October 1998 .....	980.2	—	3,084.3	4,064.5	6,880.8	—	8,269.6	15,150.4
September 1998 .....	1,018.8	—	3,156.7	4,175.5	6,867.9	—	8,385.5	15,253.4
October 1997 .....	936.0	—	2,860.2	3,796.2	6,861.3	—	8,263.5	15,124.7
<b>Pennsylvania</b>								
October 1998 .....	1,715.9	—	873.6	2,589.6	10,120.5	—	3,758.9	13,879.4
September 1998 .....	1,670.1	—	856.2	2,526.3	10,181.3	—	3,661.4	13,842.7
October 1997 .....	1,497.5	—	781.0	2,278.5	10,607.5	—	3,637.9	14,245.5

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Subdistrict IC</b>								
October 1998 .....	36,203.2	—	3,487.3	39,690.5	7,528.4	—	853.6	8,382.0
September 1998 .....	35,319.0	—	3,488.9	38,808.0	7,253.8	—	851.4	8,105.2
October 1997 .....	35,873.5	—	3,390.1	39,263.5	7,551.7	—	865.8	8,417.5
<b>Florida</b>								
October 1998 .....	12,338.6	—	—	12,338.6	2,982.4	—	—	2,982.4
September 1998 .....	11,646.8	—	—	11,646.8	2,855.4	—	—	2,855.4
October 1997 .....	11,856.5	—	—	11,856.5	2,965.5	—	—	2,965.5
<b>Georgia</b>								
October 1998 .....	8,103.5	—	—	8,103.5	1,673.3	—	—	1,673.3
September 1998 .....	7,837.9	—	—	7,837.9	1,599.6	—	—	1,599.6
October 1997 .....	8,302.4	—	—	8,302.4	1,647.3	—	—	1,647.3
<b>North Carolina</b>								
October 1998 .....	7,306.1	—	—	7,306.1	1,430.5	—	—	1,430.5
September 1998 .....	7,312.9	—	—	7,312.9	1,392.2	—	—	1,392.2
October 1997 .....	7,473.8	—	—	7,473.8	1,523.8	—	—	1,523.8
<b>South Carolina</b>								
October 1998 .....	3,972.2	—	—	3,972.2	682.8	—	—	682.8
September 1998 .....	4,003.8	—	—	4,003.8	667.8	—	—	667.8
October 1997 .....	3,988.5	—	—	3,988.5	671.0	—	—	671.0
<b>Virginia</b>								
October 1998 .....	3,192.6	—	3,487.3	6,679.9	564.7	—	853.6	1,418.4
September 1998 .....	3,221.5	—	3,488.9	6,710.4	554.1	—	851.4	1,405.4
October 1997 .....	3,194.0	—	3,390.1	6,584.1	545.9	—	865.8	1,411.7
<b>West Virginia</b>								
October 1998 .....	1,290.1	—	—	1,290.1	194.7	—	—	194.7
September 1998 .....	1,296.1	—	—	1,296.1	184.8	—	—	184.8
October 1997 .....	1,058.3	—	—	1,058.3	198.2	—	—	198.2
<b>PAD District II</b>								
October 1998 .....	67,138.7	4,350.1	8,146.8	79,635.5	7,683.0	682.7	1,812.8	10,178.5
September 1998 .....	66,958.1	5,294.8	7,969.2	80,222.1	7,319.5	836.7	1,738.9	9,895.2
October 1997 .....	69,475.7	3,733.0	7,855.8	81,064.5	7,552.6	614.9	1,727.4	9,895.0
<b>Illinois</b>								
October 1998 .....	4,472.2	—	4,748.2	9,220.4	542.6	—	1,272.3	1,815.0
September 1998 .....	4,731.6	—	4,620.8	9,352.4	462.7	—	1,200.3	1,663.0
October 1997 .....	5,054.2	—	4,677.9	9,732.1	443.2	—	1,211.1	1,654.3
<b>Indiana</b>								
October 1998 .....	5,599.0	—	924.1	6,523.1	817.7	—	154.0	971.8
September 1998 .....	5,413.5	—	956.0	6,369.5	758.3	—	163.1	921.4
October 1997 .....	5,428.6	—	710.0	6,138.6	839.8	—	139.1	978.9
<b>Iowa</b>								
October 1998 .....	3,549.2	—	—	3,549.2	370.2	—	—	370.2
September 1998 .....	3,554.6	—	—	3,554.6	352.3	—	—	352.3
October 1997 .....	3,687.3	—	—	3,687.3	300.3	—	—	300.3
<b>Kansas</b>								
October 1998 .....	3,625.7	—	—	3,625.7	165.6	—	—	165.6
September 1998 .....	3,594.5	—	—	3,594.5	158.8	—	—	158.8
October 1997 .....	3,643.6	—	—	3,643.6	141.5	—	—	141.5
<b>Kentucky</b>								
October 1998 .....	3,180.0	—	996.0	4,176.0	448.3	—	201.6	649.8
September 1998 .....	3,170.5	—	937.2	4,107.7	415.4	—	197.1	612.5
October 1997 .....	3,163.7	—	949.4	4,113.2	W	—	W	616.0
<b>Michigan</b>								
October 1998 .....	10,710.7	—	—	10,710.7	1,107.0	—	—	1,107.0
September 1998 .....	10,766.0	—	—	10,766.0	1,067.7	—	—	1,067.7
October 1997 .....	10,713.9	—	—	10,713.9	1,102.0	—	—	1,102.0
<b>Minnesota</b>								
October 1998 .....	—	4,350.1	—	4,350.1	—	682.7	—	682.7
September 1998 .....	—	5,294.8	—	5,294.8	—	836.7	—	836.7
October 1997 .....	1,588.1	3,733.0	—	5,321.1	30.3	614.9	—	645.3
<b>Missouri</b>								
October 1998 .....	6,254.5	—	—	6,254.5	520.9	—	—	520.9
September 1998 .....	6,119.6	—	—	6,119.6	501.4	—	—	501.4
October 1997 .....	6,159.6	—	—	6,159.6	461.6	—	—	461.6

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Subdistrict IC</b>								
October 1998 .....	12,224.4	—	1,469.7	13,694.1	55,955.9	—	5,810.7	61,766.6
September 1998 .....	12,025.1	—	1,481.1	13,506.2	54,598.0	—	5,821.4	60,419.3
October 1997 .....	10,724.1	—	1,273.0	11,997.1	54,149.2	—	5,528.9	59,678.2
<b>Florida</b>								
October 1998 .....	4,952.4	—	—	4,952.4	20,273.3	—	—	20,273.3
September 1998 .....	4,796.7	—	—	4,796.7	19,299.0	—	—	19,299.0
October 1997 .....	4,325.3	—	—	4,325.3	19,147.2	—	—	19,147.2
<b>Georgia</b>								
October 1998 .....	2,553.0	—	—	2,553.0	12,329.9	—	—	12,329.9
September 1998 .....	2,509.2	—	—	2,509.2	11,946.7	—	—	11,946.7
October 1997 .....	2,301.2	—	—	2,301.2	12,250.9	—	—	12,250.9
<b>North Carolina</b>								
October 1998 .....	2,363.5	—	—	2,363.5	11,100.1	—	—	11,100.1
September 1998 .....	2,357.2	—	—	2,357.2	11,062.3	—	—	11,062.3
October 1997 .....	2,116.4	—	—	2,116.4	11,114.0	—	—	11,114.0
<b>South Carolina</b>								
October 1998 .....	1,150.1	—	—	1,150.1	5,805.1	—	—	5,805.1
September 1998 .....	1,157.3	—	—	1,157.3	5,828.9	—	—	5,828.9
October 1997 .....	964.9	—	—	964.9	5,624.4	—	—	5,624.4
<b>Virginia</b>								
October 1998 .....	938.7	—	1,469.7	2,408.5	4,696.1	—	5,810.7	10,506.8
September 1998 .....	954.4	—	1,481.1	2,435.5	4,730.0	—	5,821.4	10,551.3
October 1997 .....	823.4	—	1,273.0	2,096.4	4,563.3	—	5,528.9	10,092.2
<b>West Virginia</b>								
October 1998 .....	266.6	—	—	266.6	1,751.4	—	—	1,751.4
September 1998 .....	250.3	—	—	250.3	1,731.1	—	—	1,731.1
October 1997 .....	193.0	—	—	193.0	1,449.5	—	—	1,449.5
<b>PAD District II</b>								
October 1998 .....	11,558.5	499.7	2,217.6	14,275.8	86,380.1	5,532.5	12,177.2	104,089.8
September 1998 .....	11,739.2	690.6	2,174.5	14,604.3	86,016.8	6,822.2	11,882.6	104,721.6
October 1997 .....	10,893.4	390.3	2,055.5	13,339.3	87,921.7	4,738.3	11,638.7	104,298.8
<b>Illinois</b>								
October 1998 .....	616.6	—	1,534.0	2,150.6	5,631.5	—	7,554.5	13,186.0
September 1998 .....	597.5	—	1,483.6	2,081.1	5,791.8	—	7,304.7	13,096.6
October 1997 .....	628.3	—	1,453.7	2,082.0	6,125.6	—	7,342.7	13,468.4
<b>Indiana</b>								
October 1998 .....	1,086.1	—	239.4	1,325.5	7,502.9	—	1,317.5	8,820.4
September 1998 .....	1,105.7	—	252.5	1,358.2	7,277.5	—	1,371.6	8,649.1
October 1997 .....	1,087.1	—	179.5	1,266.6	7,355.5	—	1,028.6	8,384.1
<b>Iowa</b>								
October 1998 .....	249.0	—	—	249.0	4,168.4	—	—	4,168.4
September 1998 .....	258.3	—	—	258.3	4,165.3	—	—	4,165.3
October 1997 .....	290.5	—	—	290.5	4,278.1	—	—	4,278.1
<b>Kansas</b>								
October 1998 .....	409.7	—	—	409.7	4,201.0	—	—	4,201.0
September 1998 .....	419.3	—	—	419.3	4,172.7	—	—	4,172.7
October 1997 .....	354.0	—	—	354.0	4,139.1	—	—	4,139.1
<b>Kentucky</b>								
October 1998 .....	816.0	—	217.2	1,033.2	4,444.2	—	1,414.8	5,859.0
September 1998 .....	828.2	—	212.2	1,040.5	4,414.2	—	1,346.5	5,760.7
October 1997 .....	W	—	W	958.1	4,340.8	—	1,346.5	5,687.3
<b>Michigan</b>								
October 1998 .....	1,807.1	—	—	1,807.1	13,624.9	—	—	13,624.9
September 1998 .....	1,856.1	—	—	1,856.1	13,689.7	—	—	13,689.7
October 1997 .....	1,660.4	—	—	1,660.4	13,476.4	—	—	13,476.4
<b>Minnesota</b>								
October 1998 .....	—	499.7	—	499.7	—	5,532.5	—	5,532.5
September 1998 .....	—	690.6	—	690.6	—	6,822.2	—	6,822.2
October 1997 .....	163.8	390.3	—	554.2	1,782.2	4,738.3	—	6,520.5
<b>Missouri</b>								
October 1998 .....	942.2	—	—	942.2	7,717.5	—	—	7,717.5
September 1998 .....	947.3	—	—	947.3	7,568.3	—	—	7,568.3
October 1997 .....	815.2	—	—	815.2	7,436.4	—	—	7,436.4

See footnotes at end of table.



**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Nebraska</b>								
October 1998 .....	2,058.2	—	—	2,058.2	114.9	—	—	114.9
September 1998 .....	2,106.0	—	—	2,106.0	114.3	—	—	114.3
October 1997 .....	2,093.8	—	—	2,093.8	76.0	—	—	76.0
<b>North Dakota</b>								
October 1998 .....	925.9	—	—	925.9	NA	—	—	NA
September 1998 .....	938.5	—	—	938.5	NA	—	—	NA
October 1997 .....	986.7	—	—	986.7	W	—	—	W
<b>Ohio</b>								
October 1998 .....	10,990.6	—	—	10,990.6	1,787.0	—	—	1,787.0
September 1998 .....	10,681.1	—	—	10,681.1	1,743.1	—	—	1,743.1
October 1997 .....	11,195.0	—	—	11,195.0	1,837.4	—	—	1,837.4
<b>Oklahoma</b>								
October 1998 .....	4,512.8	—	—	4,512.8	216.4	—	—	216.4
September 1998 .....	4,698.4	—	—	4,698.4	219.2	—	—	219.2
October 1997 .....	4,361.2	—	—	4,361.2	243.8	—	—	243.8
<b>South Dakota</b>								
October 1998 .....	1,090.5	—	—	1,090.5	72.6	—	—	72.6
September 1998 .....	1,028.2	—	—	1,028.2	70.1	—	—	70.1
October 1997 .....	1,134.5	—	—	1,134.5	W	—	—	W
<b>Tennessee</b>								
October 1998 .....	6,009.7	—	—	6,009.7	1,264.9	—	—	1,264.9
September 1998 .....	6,007.7	—	—	6,007.7	1,220.6	—	—	1,220.6
October 1997 .....	6,097.8	—	—	6,097.8	1,350.9	—	—	1,350.9
<b>Wisconsin</b>								
October 1998 .....	4,159.7	—	1,478.4	5,638.1	214.7	—	184.8	399.5
September 1998 .....	4,147.7	—	1,455.2	5,602.9	198.1	—	178.4	376.5
October 1997 .....	4,167.7	—	1,518.5	5,686.2	W	—	W	415.9
<b>PAD District III</b>								
October 1998 .....	29,469.0	683.8	8,509.4	38,662.2	4,126.3	58.0	1,741.6	5,925.8
September 1998 .....	29,309.2	231.7	8,140.8	37,681.7	4,034.7	22.5	1,688.1	5,745.3
October 1997 .....	28,141.8	650.5	8,210.5	37,002.8	4,295.7	72.4	1,762.1	6,130.2
<b>Alabama</b>								
October 1998 .....	4,223.8	—	—	4,223.8	826.8	—	—	826.8
September 1998 .....	4,121.1	—	—	4,121.1	710.7	—	—	710.7
October 1997 .....	4,094.3	—	—	4,094.3	817.4	—	—	817.4
<b>Arkansas</b>								
October 1998 .....	3,057.5	—	—	3,057.5	370.1	—	—	370.1
September 1998 .....	3,037.6	—	—	3,037.6	368.1	—	—	368.1
October 1997 .....	3,045.0	—	—	3,045.0	398.8	—	—	398.8
<b>Louisiana</b>								
October 1998 .....	4,035.1	—	W	4,037.8	780.8	—	—	780.8
September 1998 .....	3,889.7	—	W	3,891.3	778.5	—	—	778.5
October 1997 .....	W	—	W	3,770.8	851.5	—	—	851.5
<b>Mississippi</b>								
October 1998 .....	2,742.0	—	—	2,742.0	378.9	—	—	378.9
September 1998 .....	2,907.2	—	—	2,907.2	386.9	—	—	386.9
October 1997 .....	2,812.0	—	—	2,812.0	409.5	—	—	409.5
<b>New Mexico</b>								
October 1998 .....	1,828.2	214.2	—	2,042.4	169.5	29.1	—	198.5
September 1998 .....	1,955.2	W	—	1,984.2	184.7	W	—	189.2
October 1997 .....	W	W	—	2,059.7	195.3	36.1	—	231.4
<b>Texas</b>								
October 1998 .....	13,582.5	469.5	8,506.7	22,558.7	1,600.3	28.9	1,741.6	3,370.7
September 1998 .....	13,398.4	202.7	8,139.2	21,740.2	1,605.8	18.0	1,688.1	3,311.9
October 1997 .....	12,589.3	W	W	21,221.0	1,623.3	36.3	1,762.1	3,421.6
<b>PAD District IV</b>								
October 1998 .....	8,081.4	797.0	—	8,878.4	1,322.4	163.6	—	1,486.0
September 1998 .....	8,863.8	350.4	—	9,214.2	1,403.0	79.1	—	1,482.1
October 1997 .....	7,939.2	678.7	—	8,618.0	1,300.2	152.4	—	1,452.6
<b>Colorado</b>								
October 1998 .....	3,027.5	730.1	—	3,757.6	631.5	159.0	—	790.5
September 1998 .....	3,523.3	350.4	—	3,873.7	741.8	79.1	—	820.9
October 1997 .....	2,831.7	629.9	—	3,461.6	601.9	146.7	—	748.6

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Nebraska</b>								
October 1998 .....	159.2	—	—	159.2	2,332.4	—	—	2,332.4
September 1998 .....	163.8	—	—	163.8	2,384.1	—	—	2,384.1
October 1997 .....	151.3	—	—	151.3	2,321.1	—	—	2,321.1
<b>North Dakota</b>								
October 1998 .....	61.3	—	—	61.3	1,027.3	—	—	1,027.3
September 1998 .....	64.4	—	—	64.4	1,040.4	—	—	1,040.4
October 1997 .....	W	—	—	W	1,076.4	—	—	1,076.4
<b>Ohio</b>								
October 1998 .....	1,965.1	—	—	1,965.1	14,742.7	—	—	14,742.7
September 1998 .....	1,962.3	—	—	1,962.3	14,386.5	—	—	14,386.5
October 1997 .....	1,868.4	—	—	1,868.4	14,900.7	—	—	14,900.7
<b>Oklahoma</b>								
October 1998 .....	828.8	—	—	828.8	5,558.0	—	—	5,558.0
September 1998 .....	857.1	—	—	857.1	5,774.7	—	—	5,774.7
October 1997 .....	670.6	—	—	670.6	5,275.6	—	—	5,275.6
<b>South Dakota</b>								
October 1998 .....	77.9	—	—	77.9	1,241.0	—	—	1,241.0
September 1998 .....	77.7	—	—	77.7	1,176.1	—	—	1,176.1
October 1997 .....	W	—	—	W	1,242.2	—	—	1,242.2
<b>Tennessee</b>								
October 1998 .....	2,036.1	—	—	2,036.1	9,310.6	—	—	9,310.6
September 1998 .....	2,072.4	—	—	2,072.4	9,300.6	—	—	9,300.6
October 1997 .....	1,849.3	—	—	1,849.3	9,298.0	—	—	9,298.0
<b>Wisconsin</b>								
October 1998 .....	503.4	—	227.1	730.5	4,877.8	—	1,890.4	6,768.2
September 1998 .....	529.0	—	226.1	755.2	4,874.9	—	1,859.7	6,734.6
October 1997 .....	W	—	W	692.5	4,873.6	—	1,920.9	6,794.6
<b>PAD District III</b>								
October 1998 .....	6,853.0	133.8	2,394.6	9,381.4	40,448.3	875.5	12,645.6	53,969.5
September 1998 .....	6,944.5	50.8	2,345.6	9,340.9	40,288.4	304.9	12,174.5	52,767.9
October 1997 .....	5,973.8	110.6	2,086.2	8,170.6	38,411.3	833.5	12,058.8	51,303.5
<b>Alabama</b>								
October 1998 .....	1,357.0	—	—	1,357.0	6,407.5	—	—	6,407.5
September 1998 .....	1,353.4	—	—	1,353.4	6,185.2	—	—	6,185.2
October 1997 .....	1,192.1	—	—	1,192.1	6,103.7	—	—	6,103.7
<b>Arkansas</b>								
October 1998 .....	697.2	—	—	697.2	4,124.7	—	—	4,124.7
September 1998 .....	711.3	—	—	711.3	4,117.0	—	—	4,117.0
October 1997 .....	623.2	—	—	623.2	4,067.0	—	—	4,067.0
<b>Louisiana</b>								
October 1998 .....	1,261.8	—	—	1,261.8	6,077.8	—	W	6,080.5
September 1998 .....	1,259.5	—	—	1,259.5	5,927.6	—	W	5,929.3
October 1997 .....	1,154.6	—	—	1,154.6	W	—	W	5,776.9
<b>Mississippi</b>								
October 1998 .....	775.5	—	—	775.5	3,896.3	—	—	3,896.3
September 1998 .....	784.8	—	—	784.8	4,078.9	—	—	4,078.9
October 1997 .....	690.9	—	—	690.9	3,912.5	—	—	3,912.5
<b>New Mexico</b>								
October 1998 .....	320.7	53.7	—	374.5	2,318.4	297.0	—	2,615.4
September 1998 .....	349.0	W	—	352.4	2,488.9	W	—	2,525.8
October 1997 .....	267.3	42.4	—	309.6	W	W	—	2,600.7
<b>Texas</b>								
October 1998 .....	2,440.8	80.1	2,394.6	4,915.5	17,623.5	578.5	12,642.9	30,845.0
September 1998 .....	2,486.6	47.4	2,345.6	4,879.6	17,490.8	268.1	12,172.9	29,931.8
October 1997 .....	2,045.7	68.2	2,086.2	4,200.1	16,258.3	W	W	28,842.8
<b>PAD District IV</b>								
October 1998 .....	1,838.8	205.7	—	2,044.5	11,242.6	1,166.3	—	12,408.9
September 1998 .....	2,026.8	72.3	—	2,099.1	12,293.6	501.8	—	12,795.5
October 1997 .....	1,595.7	140.7	—	1,736.4	10,835.1	971.9	—	11,807.0
<b>Colorado</b>								
October 1998 .....	656.3	184.0	—	840.3	4,315.3	1,073.1	—	5,388.4
September 1998 .....	782.3	72.3	—	854.6	5,047.4	501.8	—	5,549.3
October 1997 .....	543.0	127.3	—	670.3	3,976.7	903.9	—	4,880.5

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional <sup>a</sup>	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Idaho</b>								
October 1998 .....	1,295.2	—	—	1,295.2	160.3	—	—	160.3
September 1998 .....	1,318.4	—	—	1,318.4	155.3	—	—	155.3
October 1997 .....	1,228.8	—	—	1,228.8	142.8	—	—	142.8
<b>Montana</b>								
October 1998 .....	1,040.8	25.4	—	1,066.2	47.2	—	—	47.2
September 1998 .....	1,119.4	—	—	1,119.4	44.4	—	—	44.4
October 1997 .....	1,130.7	14.9	—	1,145.5	W	W	—	50.1
<b>Utah</b>								
October 1998 .....	2,027.0	41.5	—	2,068.5	469.4	4.6	—	474.0
September 1998 .....	2,152.1	—	—	2,152.1	445.0	—	—	445.0
October 1997 .....	2,035.0	34.0	—	2,069.0	W	W	—	496.1
<b>Wyoming</b>								
October 1998 .....	690.8	—	—	690.8	13.9	—	—	13.9
September 1998 .....	750.6	—	—	750.6	16.6	—	—	16.6
October 1997 .....	713.0	—	—	713.0	14.9	—	—	14.9
<b>PAD District V</b>								
October 1998 .....	12,995.9	3,967.8	28,951.2	45,914.9	1,459.3	618.4	5,810.0	7,887.7
September 1998 .....	12,431.5	2,392.3	30,035.9	44,859.7	1,495.9	327.1	5,922.1	7,745.2
October 1997 .....	9,939.5	3,843.8	29,032.5	42,815.8	1,143.5	619.6	5,858.1	7,621.3
<b>Alaska</b>								
October 1998 .....	556.7	73.9	—	630.6	26.6	W	—	34.5
September 1998 .....	724.7	W	—	726.0	28.1	—	—	28.1
October 1997 .....	458.2	63.6	—	521.7	W	W	—	26.6
<b>Arizona</b>								
October 1998 .....	2,153.3	1,162.5	1,353.9	4,669.7	191.2	166.5	241.1	598.7
September 1998 .....	1,744.6	141.3	2,546.8	4,432.7	182.3	22.4	394.5	599.2
October 1997 .....	1,084.9	553.9	2,142.0	3,780.8	W	88.1	W	569.5
<b>California</b>								
October 1998 .....	NA	—	27,597.0	27,783.9	W	—	5,569.0	5,581.7
September 1998 .....	195.9	—	27,488.4	27,684.3	12.5	—	5,527.6	5,540.1
October 1997 .....	W	—	W	26,988.9	W	—	W	5,471.9
<b>Hawaii</b>								
October 1998 .....	646.1	—	—	646.1	133.4	—	—	133.4
September 1998 .....	598.2	—	—	598.2	125.7	—	—	125.7
October 1997 .....	568.7	—	—	568.7	131.6	—	—	131.6
<b>Nevada</b>								
October 1998 .....	1,120.3	980.0	—	2,100.3	66.0	208.0	—	274.0
September 1998 .....	1,376.5	384.7	W	1,761.5	187.2	73.7	—	260.8
October 1997 .....	W	921.9	W	1,813.6	55.2	184.1	—	239.4
<b>Oregon</b>								
October 1998 .....	2,908.5	897.8	W	3,806.6	214.9	103.6	—	318.5
September 1998 .....	3,087.2	W	W	3,574.2	249.1	W	—	297.2
October 1997 .....	W	763.8	W	3,409.0	W	W	—	284.8
<b>Washington</b>								
October 1998 .....	5,424.1	NA	—	6,277.9	814.4	NA	—	946.8
September 1998 .....	4,704.4	1,378.4	—	6,082.8	711.1	182.9	—	894.0
October 1997 .....	4,192.5	1,540.5	—	5,733.0	652.1	245.5	—	897.5

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
<b>Idaho</b>								
October 1998 .....	209.3	—	—	209.3	1,664.8	—	—	1,664.8
September 1998 .....	212.9	—	—	212.9	1,686.5	—	—	1,686.5
October 1997 .....	173.8	—	—	173.8	1,545.5	—	—	1,545.5
<b>Montana</b>								
October 1998 .....	253.2	7.9	—	261.1	1,341.3	33.3	—	1,374.5
September 1998 .....	274.6	—	—	274.6	1,438.4	—	—	1,438.4
October 1997 .....	W	W	—	219.0	1,393.3	21.4	—	1,414.7
<b>Utah</b>								
October 1998 .....	557.2	13.8	—	571.0	3,053.6	59.9	—	3,113.6
September 1998 .....	577.9	—	—	577.9	3,175.0	—	—	3,175.0
October 1997 .....	W	W	—	523.7	3,042.2	46.6	—	3,088.7
<b>Wyoming</b>								
October 1998 .....	162.9	—	—	162.9	867.6	—	—	867.6
September 1998 .....	179.1	—	—	179.1	946.3	—	—	946.3
October 1997 .....	149.6	—	—	149.6	877.5	—	—	877.5
<b>PAD District V</b>								
October 1998 .....	2,336.0	861.4	7,453.1	10,650.5	16,791.3	5,447.5	42,214.3	64,453.1
September 1998 .....	2,472.6	371.4	7,538.9	10,382.9	16,400.0	3,090.8	43,496.9	62,987.7
October 1997 .....	1,559.9	572.7	6,252.9	8,385.5	12,643.0	5,036.0	41,143.5	58,822.6
<b>Alaska</b>								
October 1998 .....	69.3	21.9	—	91.2	652.6	103.7	—	756.3
September 1998 .....	79.4	W	—	92.2	832.2	14.2	—	846.3
October 1997 .....	59.6	19.7	—	79.3	W	W	—	627.6
<b>Arizona</b>								
October 1998 .....	312.5	271.5	313.6	897.6	2,657.0	1,600.5	1,908.6	6,166.0
September 1998 .....	298.8	29.9	537.1	865.9	2,225.6	193.7	3,478.4	5,897.7
October 1997 .....	W	76.3	W	645.6	1,307.9	718.3	2,969.7	4,995.9
<b>California</b>								
October 1998 .....	NA	—	7,139.5	7,200.0	NA	—	40,305.5	40,565.6
September 1998 .....	NA	—	7,001.6	7,058.6	265.4	—	40,017.6	40,283.0
October 1997 .....	W	—	W	5,854.7	W	—	W	38,315.5
<b>Hawaii</b>								
October 1998 .....	278.1	—	—	278.1	1,057.6	—	—	1,057.6
September 1998 .....	271.4	—	—	271.4	995.4	—	—	995.4
October 1997 .....	254.8	—	—	254.8	955.1	—	—	955.1
<b>Nevada</b>								
October 1998 .....	188.2	260.0	—	448.2	1,374.5	1,448.0	—	2,822.5
September 1998 .....	342.6	104.3	W	447.0	1,906.3	562.7	W	2,469.3
October 1997 .....	W	211.7	W	322.6	W	1,317.7	W	2,375.6
<b>Oregon</b>								
October 1998 .....	396.1	135.1	—	531.2	3,519.5	1,136.5	W	4,656.2
September 1998 .....	474.3	W	W	520.6	3,810.6	W	W	4,392.1
October 1997 .....	268.1	91.3	—	359.4	3,106.7	W	W	4,053.2
<b>Washington</b>								
October 1998 .....	1,031.3	NA	—	1,204.2	7,269.8	NA	—	8,428.8
September 1998 .....	949.0	178.1	—	1,127.2	6,364.5	1,739.4	—	8,104.0
October 1997 .....	695.5	173.7	—	869.2	5,540.0	1,959.7	—	7,499.7

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

<sup>a</sup> Includes leaded gasoline data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**

(Thousand Gallons per Day)

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
United States							
October 1998 .....	853.3	568.2	63,021.1	39,001.0	8,968.1	24,415.9	33,384.0
September 1998 .....	937.7	517.1	58,404.7	34,418.7	7,390.4	22,598.9	29,989.3
October 1997 .....	809.2	571.1	60,719.2	41,354.3	9,407.7	21,095.7	30,503.4
PAD District I							
October 1998 .....	200.5	W	14,876.0	6,509.6	6,569.0	12,618.2	19,187.2
September 1998 .....	197.5	W	14,123.6	6,142.8	4,662.4	11,190.6	15,853.0
October 1997 .....	192.9	W	15,084.4	6,518.1	6,232.3	10,290.9	16,523.2
Subdistrict IA							
October 1998 .....	23.8	—	1,364.3	403.2	611.5	3,110.6	3,722.1
September 1998 .....	23.0	—	1,212.0	365.0	W	1,792.2	2,305.4
October 1997 .....	21.5	—	1,184.6	404.1	W	W	3,485.5
Connecticut							
October 1998 .....	2.8	—	NA	87.9	45.3	—	45.3
September 1998 .....	3.8	—	NA	72.1	W	—	W
October 1997 .....	3.2	—	206.9	64.8	W	W	647.2
Maine							
October 1998 .....	2.4	—	84.8	58.5	W	532.0	819.9
September 1998 .....	3.4	—	94.7	49.8	W	512.4	813.7
October 1997 .....	W	—	95.0	52.8	355.8	687.4	1,043.2
Massachusetts							
October 1998 .....	9.8	—	853.4	68.3	83.6	W	2,146.5
September 1998 .....	7.9	—	742.3	65.6	114.0	1,090.3	1,204.3
October 1997 .....	8.7	—	727.0	76.3	W	W	1,492.4
New Hampshire							
October 1998 .....	2.8	—	74.1	96.9	W	457.7	598.3
September 1998 .....	2.5	—	66.5	96.9	W	135.3	142.2
October 1997 .....	1.8	—	51.0	111.5	30.6	122.1	152.7
Rhode Island							
October 1998 .....	W	—	95.5	23.6	51.4	W	76.5
September 1998 .....	W	—	93.1	25.1	W	W	103.7
October 1997 .....	W	—	92.9	31.8	117.0	—	117.0
Vermont							
October 1998 .....	W	—	15.5	68.0	W	32.9	35.6
September 1998 .....	W	—	11.3	55.5	W	27.1	28.6
October 1997 .....	W	—	11.8	66.8	W	W	32.9
Subdistrict IB							
October 1998 .....	51.0	W	7,109.8	2,153.7	3,976.7	4,665.4	8,642.0
September 1998 .....	56.1	W	7,295.0	1,930.6	2,847.8	5,294.0	8,141.9
October 1997 .....	46.6	W	7,849.0	2,116.0	3,295.1	3,793.3	7,088.4
Delaware							
October 1998 .....	1.0	—	7.1	W	250.7	155.4	406.1
September 1998 .....	1.7	—	6.2	208.8	W	245.3	303.5
October 1997 .....	1.1	—	W	268.2	W	W	W
District of Columbia							
October 1998 .....	—	—	W	—	W	—	W
September 1998 .....	—	—	W	—	W	—	W
October 1997 .....	—	—	W	—	W	—	W
Maryland							
October 1998 .....	5.1	—	377.8	102.3	259.5	1,255.4	1,514.9
September 1998 .....	6.0	—	418.4	94.6	269.2	W	1,590.7
October 1997 .....	5.7	—	404.3	130.8	309.6	292.0	601.6
New Jersey							
October 1998 .....	NA	—	3,471.9	409.4	1,027.3	842.8	1,870.1
September 1998 .....	NA	—	3,834.6	422.5	884.2	927.3	1,811.5
October 1997 .....	17.9	—	4,303.3	356.9	1,152.3	1,148.1	2,300.4
New York							
October 1998 .....	12.1	—	1,441.1	534.5	2,304.8	NA	3,890.1
September 1998 .....	12.9	—	1,415.7	508.4	1,107.7	2,110.4	3,218.1
October 1997 .....	6.6	—	1,255.5	498.9	1,563.9	1,409.7	2,973.5
Pennsylvania							
October 1998 .....	12.8	W	1,723.3	849.4	134.2	826.4	960.5
September 1998 .....	14.7	W	1,579.4	696.2	528.4	689.5	1,217.9
October 1997 .....	15.2	W	1,838.8	861.2	W	W	780.7

See footnotes at end of table.

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil			
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil	
Subdistrict IC								
October 1998 .....	125.6	W	6,401.9	3,952.7	1,980.8	4,842.2	6,823.0	
September 1998 .....	118.4	W	5,616.6	3,847.2	1,301.3	4,104.3	5,405.7	
October 1997 .....	124.8	W	6,050.8	3,998.0	W	W	5,949.3	
Florida								
October 1998 .....	65.3	—	2,600.7	722.3	1,312.8	3,321.7	4,634.5	
September 1998 .....	53.8	—	2,262.0	668.6	W	2,751.3	3,767.4	
October 1997 .....	61.6	—	2,712.4	794.1	W	W	3,836.4	
Georgia								
October 1998 .....	23.4	W	1,782.0	841.2	—	266.5	266.5	
September 1998 .....	23.0	W	1,468.4	903.6	—	177.1	177.1	
October 1997 .....	22.4	W	1,513.4	808.2	—	454.3	454.3	
North Carolina								
October 1998 .....	22.4	—	775.2	1,228.9	W	543.8	561.0	
September 1998 .....	21.3	—	773.2	1,396.5	W	600.2	615.4	
October 1997 .....	21.4	—	665.7	1,379.9	W	W	680.4	
South Carolina								
October 1998 .....	6.7	—	153.2	383.2	W	W	W	
September 1998 .....	6.8	—	136.7	419.9	W	W	W	
October 1997 .....	8.6	—	124.7	451.7	W	W	W	
Virginia								
October 1998 .....	4.2	—	1,072.0	692.3	528.1	500.5	1,028.6	
September 1998 .....	10.6	—	957.3	379.3	241.9	372.1	614.1	
October 1997 .....	7.7	—	1,012.4	462.1	W	W	579.8	
West Virginia								
October 1998 .....	3.6	—	18.8	84.8	W	—	W	
September 1998 .....	3.0	—	19.0	79.3	W	—	W	
October 1997 .....	3.1	—	22.2	102.0	W	W	W	
PAD District II								
October 1998 .....	259.7	W	10,298.7	14,579.3	59.1	333.6	392.6	
September 1998 .....	279.6	W	9,377.3	11,227.5	114.4	233.1	347.5	
October 1997 .....	266.3	W	9,736.6	16,743.1	W	W	537.7	
Illinois								
October 1998 .....	12.0	—	1,513.0	1,593.6	—	—	—	
September 1998 .....	14.4	—	1,436.0	1,407.9	W	—	W	
October 1997 .....	W	—	1,148.3	2,071.1	W	W	53.0	
Indiana								
October 1998 .....	12.3	—	NA	807.6	W	W	56.0	
September 1998 .....	14.3	—	1,004.6	739.1	W	W	W	
October 1997 .....	17.7	—	979.2	1,382.7	W	W	82.8	
Iowa								
October 1998 .....	23.3	—	127.8	1,880.5	—	W	W	
September 1998 .....	18.7	—	118.6	1,041.2	—	—	—	
October 1997 .....	10.0	—	124.1	1,691.8	—	W	W	
Kansas								
October 1998 .....	11.8	—	238.9	2,169.8	—	W	W	
September 1998 .....	12.2	—	153.0	1,679.8	—	W	W	
October 1997 .....	13.9	—	233.7	2,393.1	—	W	W	
Kentucky								
October 1998 .....	3.5	—	691.6	428.5	W	W	W	
September 1998 .....	4.6	—	W	458.0	W	W	W	
October 1997 .....	4.7	—	563.7	608.1	W	W	W	
Michigan								
October 1998 .....	NA	—	845.0	1,670.7	—	W	W	
September 1998 .....	46.4	—	771.8	1,236.3	—	W	W	
October 1997 .....	41.5	—	1,040.8	1,314.0	—	W	W	
Minnesota								
October 1998 .....	W	—	1,149.2	1,667.6	W	94.7	94.9	
September 1998 .....	W	—	762.7	937.0	W	100.9	101.1	
October 1997 .....	W	—	1,081.7	2,086.5	W	W	154.3	
Missouri								
October 1998 .....	15.7	—	1,323.3	1,112.1	W	W	W	
September 1998 .....	16.3	—	1,317.2	1,120.8	—	—	—	
October 1997 .....	15.2	—	1,365.8	1,105.7	W	W	W	

See footnotes at end of table.

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
<b>Nebraska</b>							
October 1998 .....	W	—	107.3	434.6	—	W	W
September 1998 .....	W	—	114.1	474.3	—	W	W
October 1997 .....	W	—	110.7	526.8	—	W	W
<b>North Dakota</b>							
October 1998 .....	3.6	—	NA	249.3	W	W	W
September 1998 .....	NA	—	NA	173.9	—	W	W
October 1997 .....	3.0	—	17.3	247.5	—	—	—
<b>Ohio</b>							
October 1998 .....	45.7	W	1,346.8	864.0	W	17.2	48.3
September 1998 .....	45.6	W	1,348.1	586.8	W	31.5	33.0
October 1997 .....	53.1	W	1,415.5	1,104.1	W	W	17.0
<b>Oklahoma</b>							
October 1998 .....	12.7	—	625.7	411.0	—	—	—
September 1998 .....	10.7	—	553.0	382.7	—	—	—
October 1997 .....	11.0	—	460.2	585.3	—	W	W
<b>South Dakota</b>							
October 1998 .....	6.2	—	99.8	258.3	—	W	W
September 1998 .....	7.7	—	99.2	169.7	—	W	W
October 1997 .....	W	—	47.1	359.2	—	W	W
<b>Tennessee</b>							
October 1998 .....	24.7	—	1,083.3	311.0	W	W	22.0
September 1998 .....	23.1	—	965.0	338.8	W	W	13.2
October 1997 .....	20.5	—	1,003.0	421.5	W	W	32.2
<b>Wisconsin</b>							
October 1998 .....	W	—	173.4	720.7	—	W	W
September 1998 .....	W	—	171.2	481.1	—	W	W
October 1997 .....	14.1	—	145.6	846.1	—	W	W
<b>PAD District III</b>							
October 1998 .....	125.3	W	16,972.0	14,177.0	693.7	7,376.7	8,070.4
September 1998 .....	140.6	W	14,748.0	13,779.2	938.8	7,339.6	8,278.4
October 1997 .....	125.3	W	16,112.8	14,391.1	1,294.7	5,734.4	7,029.1
<b>Alabama</b>							
October 1998 .....	13.4	W	500.6	433.3	W	246.6	247.2
September 1998 .....	8.8	W	411.7	464.0	W	W	110.7
October 1997 .....	11.5	W	190.2	419.4	W	W	207.9
<b>Arkansas</b>							
October 1998 .....	8.5	—	127.7	412.6	—	—	—
September 1998 .....	12.7	—	137.5	360.4	—	—	—
October 1997 .....	13.3	—	116.6	447.2	—	—	—
<b>Louisiana</b>							
October 1998 .....	11.5	—	3,055.7	1,461.5	—	NA	NA
September 1998 .....	9.4	—	2,683.5	1,302.5	—	4,459.4	4,459.4
October 1997 .....	11.6	—	4,093.0	2,498.7	W	W	3,723.0
<b>Mississippi</b>							
October 1998 .....	5.9	W	711.3	612.5	W	37.3	W
September 1998 .....	9.0	W	796.7	648.5	W	W	817.1
October 1997 .....	6.7	W	901.6	686.8	W	W	W
<b>New Mexico</b>							
October 1998 .....	13.3	—	254.3	320.1	W	—	W
September 1998 .....	11.8	—	213.6	231.0	W	—	W
October 1997 .....	16.6	—	180.2	263.1	W	—	W
<b>Texas</b>							
October 1998 .....	72.7	—	12,322.5	10,936.9	W	2,854.9	3,121.7
September 1998 .....	88.8	—	10,505.0	10,772.7	W	2,620.4	2,880.8
October 1997 .....	65.5	—	10,631.2	10,075.9	436.6	1,878.7	2,315.3
<b>PAD District IV</b>							
October 1998 .....	33.5	—	1,500.1	1,037.8	W	6.7	31.5
September 1998 .....	47.9	—	1,444.3	893.6	W	W	28.4
October 1997 .....	35.0	W	1,318.9	1,057.1	W	W	40.9
<b>Colorado</b>							
October 1998 .....	15.1	—	732.3	318.2	—	—	—
September 1998 .....	20.3	—	605.8	299.7	W	—	W
October 1997 .....	16.0	—	629.5	354.9	—	—	—

See footnotes at end of table.

**Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha- Type Jet Fuel	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
<b>Idaho</b>							
October 1998 .....	3.6	—	67.6	67.4	—	—	—
September 1998 .....	W	—	75.7	58.9	—	—	—
October 1997 .....	W	—	66.2	57.0	—	W	W
<b>Montana</b>							
October 1998 .....	W	—	86.1	204.1	—	W	W
September 1998 .....	11.9	—	93.4	158.3	—	W	W
October 1997 .....	4.5	—	73.2	171.8	—	W	W
<b>Utah</b>							
October 1998 .....	6.8	—	602.3	155.5	W	W	W
September 1998 .....	7.6	—	654.5	114.3	W	—	W
October 1997 .....	9.6	W	538.8	170.5	W	W	W
<b>Wyoming</b>							
October 1998 .....	1.9	—	11.8	292.6	W	W	W
September 1998 .....	3.4	—	14.9	262.6	W	W	W
October 1997 .....	W	—	11.3	302.9	W	W	W
<b>PAD District V</b>							
October 1998 .....	234.4	17.4	19,374.2	2,697.3	1,621.6	NA	5,702.3
September 1998 .....	272.1	10.5	18,711.5	2,375.6	1,654.0	3,828.0	5,482.0
October 1997 .....	189.8	18.5	18,466.5	2,644.8	1,746.8	4,625.7	6,372.5
<b>Alaska</b>							
October 1998 .....	71.6	W	2,433.9	47.4	—	—	—
September 1998 .....	100.5	W	2,479.2	60.9	—	—	—
October 1997 .....	34.0	W	2,363.5	W	—	—	—
<b>Arizona</b>							
October 1998 .....	18.6	—	934.8	165.7	W	—	W
September 1998 .....	16.1	—	725.4	197.9	W	—	W
October 1997 .....	21.1	W	904.3	232.5	W	—	W
<b>California</b>							
October 1998 .....	91.5	W	11,141.1	1,622.5	439.4	NA	NA
September 1998 .....	98.7	W	11,397.9	1,401.0	621.8	1,457.5	2,079.3
October 1997 .....	93.7	W	10,722.2	1,427.5	618.8	1,188.3	1,807.1
<b>Hawaii</b>							
October 1998 .....	W	—	1,100.9	W	W	W	W
September 1998 .....	W	—	917.9	W	W	W	W
October 1997 .....	W	—	980.5	W	W	W	1,330.9
<b>Nevada</b>							
October 1998 .....	13.5	—	773.7	149.5	W	—	W
September 1998 .....	14.4	—	741.8	114.7	W	—	W
October 1997 .....	15.1	—	836.3	154.7	W	—	W
<b>Oregon</b>							
October 1998 .....	W	—	608.6	130.7	NA	422.4	435.3
September 1998 .....	NA	—	597.5	125.2	—	455.6	455.6
October 1997 .....	W	—	566.6	146.3	W	W	422.0
<b>Washington</b>							
October 1998 .....	21.6	—	2,381.2	523.3	NA	1,646.9	1,650.6
September 1998 .....	23.3	—	1,851.8	415.8	—	1,698.7	1,698.7
October 1997 .....	10.7	—	2,093.1	518.9	NA	2,794.3	2,802.5

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."



**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**  
(Thousand Gallons per Day)

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate		
				Low-Sulfur	High-Sulfur	Total			
United States									
October 1998 .....	2,134.7	1,973.9	26,080.3	98,591.6	21,815.3	120,406.9	146,487.2	492.4	151,088.2
September 1998 .....	1,834.8	1,246.6	21,949.7	94,627.6	21,256.5	115,884.1	137,833.8	495.5	141,410.8
October 1997 .....	2,911.1	1,905.4	30,358.4	93,971.5	22,481.6	116,453.1	146,811.5	627.9	152,255.9
PAD District I									
October 1998 .....	1,248.3	NA	17,165.7	26,822.9	4,394.0	31,216.9	48,382.6	387.5	50,379.0
September 1998 .....	917.4	NA	13,436.5	25,760.5	4,279.8	30,040.3	43,476.8	383.5	45,019.4
October 1997 .....	1,866.5	159.2	18,880.9	25,080.8	4,874.6	29,955.5	48,836.4	499.3	51,361.4
Subdistrict IA									
October 1998 .....	249.9	2.5	4,656.1	2,545.7	379.5	2,925.3	7,581.4	132.7	7,966.5
September 1998 .....	210.8	W	3,377.2	2,497.3	500.4	2,997.8	6,374.9	89.1	6,675.6
October 1997 .....	278.8	W	5,328.4	2,610.4	730.0	3,340.4	8,668.7	W	9,109.4
Connecticut									
October 1998 .....	63.6	W	985.7	575.9	W	700.5	1,686.2	26.8	1,777.3
September 1998 .....	W	W	716.9	555.8	W	684.5	1,401.4	21.7	1,494.4
October 1997 .....	34.5	W	1,326.9	W	W	776.9	2,103.8	W	2,162.5
Maine									
October 1998 .....	86.7	W	766.3	488.3	24.9	513.2	1,279.5	W	1,374.9
September 1998 .....	59.8	W	680.5	479.9	41.5	521.3	1,201.8	4.0	1,265.8
October 1997 .....	W	W	761.3	494.0	31.6	525.6	1,286.9	NA	1,401.4
Massachusetts									
October 1998 .....	29.9	W	1,626.0	826.3	174.0	1,000.2	2,626.2	65.6	2,722.0
September 1998 .....	28.3	—	1,080.6	817.9	263.1	1,081.0	2,161.6	43.5	2,233.4
October 1997 .....	W	W	1,897.7	818.8	524.1	1,342.9	3,240.7	96.1	3,382.5
New Hampshire									
October 1998 .....	51.2	—	571.2	295.3	5.5	300.7	871.9	17.4	940.5
September 1998 .....	38.9	W	422.6	286.0	7.9	294.0	716.6	W	766.9
October 1997 .....	75.0	W	588.0	300.9	6.7	307.6	895.6	W	982.1
Rhode Island									
October 1998 .....	5.8	W	561.7	262.4	39.0	301.4	863.1	8.2	877.1
September 1998 .....	W	W	383.0	269.2	W	316.0	699.0	W	710.8
October 1997 .....	W	W	618.5	W	W	287.6	906.1	9.8	927.2
Vermont									
October 1998 .....	12.8	W	145.3	97.6	11.6	109.2	254.5	6.7	274.7
September 1998 .....	4.9	W	93.6	88.5	12.4	101.0	194.6	4.6	204.3
October 1997 .....	10.7	W	136.0	85.7	13.9	99.6	235.6	W	253.6
Subdistrict IB									
October 1998 .....	563.6	NA	8,917.4	9,299.2	688.1	9,987.4	18,904.7	243.1	19,998.6
September 1998 .....	402.5	NA	6,865.8	9,075.7	666.6	9,742.3	16,608.1	281.5	17,499.6
October 1997 .....	881.4	157.3	9,416.4	8,785.0	1,000.1	9,785.1	19,201.5	322.2	20,562.4
Delaware									
October 1998 .....	10.9	—	165.9	258.9	8.7	267.5	433.5	W	444.6
September 1998 .....	4.9	—	93.1	270.0	8.0	278.0	371.0	W	376.2
October 1997 .....	W	—	138.7	W	W	225.7	364.4	W	381.1
District of Columbia									
October 1998 .....	—	—	46.4	24.9	W	25.9	72.3	W	75.4
September 1998 .....	—	—	21.9	26.7	W	27.5	49.4	W	108.0
October 1997 .....	W	—	103.9	W	W	32.7	136.6	W	149.6
Maryland									
October 1998 .....	46.9	W	458.8	840.2	68.3	908.5	1,367.4	W	1,416.7
September 1998 .....	28.8	W	395.3	915.1	48.6	963.8	1,359.0	W	1,391.4
October 1997 .....	74.4	W	644.2	943.8	153.3	1,097.1	1,741.3	W	1,822.0
New Jersey									
October 1998 .....	162.4	W	2,932.6	2,451.4	315.0	2,766.4	5,699.0	37.5	5,939.4
September 1998 .....	97.2	W	1,983.4	2,349.0	285.4	2,634.3	4,617.7	76.8	4,832.3
October 1997 .....	336.3	W	2,982.5	2,262.5	340.5	2,602.9	5,585.4	W	6,013.6
New York									
October 1998 .....	217.8	W	2,447.5	2,105.8	191.7	2,297.5	4,745.1	196.5	5,396.1
September 1998 .....	174.0	W	2,070.6	2,039.3	201.1	2,240.4	4,311.0	139.7	4,788.9
October 1997 .....	W	W	2,932.1	1,913.8	123.1	2,036.9	4,969.1	256.9	5,588.7
Pennsylvania									
October 1998 .....	125.6	9.6	2,866.1	3,618.0	103.5	3,721.4	6,587.5	W	6,726.5
September 1998 .....	97.6	2.5	2,301.6	3,475.7	122.6	3,598.3	5,899.9	W	6,002.9
October 1997 .....	195.9	W	2,615.0	3,420.4	369.4	3,789.7	6,404.8	W	6,607.5

See footnotes at end of table.

**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate		
				Low-Sulfur	High-Sulfur	Total			
Subdistrict IC									
October 1998 .....	434.7	71.0	3,592.2	14,978.0	3,326.4	18,304.3	21,896.5	11.7	22,413.9
September 1998 .....	304.1	33.5	3,193.6	14,187.4	3,112.8	17,300.2	20,493.8	12.9	20,844.2
October 1997 .....	706.4	W	4,136.1	13,685.4	3,144.6	16,830.0	20,966.1	W	21,689.6
Florida									
October 1998 .....	44.0	—	629.8	3,989.3	1,303.7	5,293.0	5,922.8	W	5,972.8
September 1998 .....	45.2	—	532.4	3,695.3	1,197.5	4,892.8	5,425.2	W	5,475.3
October 1997 .....	W	—	644.1	3,642.2	952.2	4,594.4	5,238.5	W	5,278.0
Georgia									
October 1998 .....	29.9	W	435.5	3,836.4	657.1	4,493.5	4,929.1	—	4,959.5
September 1998 .....	20.6	W	390.0	3,661.6	678.5	4,340.1	4,730.1	—	4,750.8
October 1997 .....	W	—	500.8	3,418.3	605.2	4,023.5	4,524.3	W	4,568.5
North Carolina									
October 1998 .....	139.4	W	710.4	2,587.1	646.5	3,233.5	3,944.0	W	4,117.3
September 1998 .....	93.3	W	673.5	2,368.3	507.0	2,875.3	3,548.8	W	3,654.2
October 1997 .....	W	—	881.9	2,428.1	646.4	3,074.5	3,956.4	W	4,230.0
South Carolina									
October 1998 .....	97.8	W	352.0	1,508.2	241.7	1,749.9	2,101.9	—	2,203.1
September 1998 .....	66.4	W	346.5	1,496.2	226.5	1,722.7	2,069.2	—	2,137.3
October 1997 .....	133.9	W	470.4	1,289.6	210.7	1,500.4	1,970.8	W	2,105.1
Virginia									
October 1998 .....	111.0	26.1	945.1	2,503.6	370.4	2,874.0	3,819.1	W	3,961.6
September 1998 .....	72.0	16.2	837.2	2,424.2	370.3	2,794.5	3,631.7	W	3,727.2
October 1997 .....	W	—	1,225.6	2,498.4	517.9	3,016.3	4,241.8	W	4,444.6
West Virginia									
October 1998 .....	12.6	W	519.4	553.4	106.9	660.3	1,179.6	—	1,199.7
September 1998 .....	6.6	W	414.0	541.9	133.0	674.9	1,088.9	—	1,099.3
October 1997 .....	W	W	413.4	408.9	212.2	621.0	1,034.4	—	1,063.4
PAD District II									
October 1998 .....	353.7	1,001.0	6,855.2	33,474.5	6,088.9	39,563.4	46,418.5	7.2	47,780.4
September 1998 .....	372.0	530.9	6,364.9	32,552.6	5,849.8	38,402.4	44,767.2	W	45,676.5
October 1997 .....	770.6	1,101.6	8,767.2	32,694.7	6,582.9	39,277.6	48,044.8	12.0	49,929.2
Illinois									
October 1998 .....	42.1	NA	1,245.2	3,359.1	762.3	4,121.3	5,366.5	—	5,521.1
September 1998 .....	W	NA	1,121.9	3,171.1	626.1	3,797.2	4,919.1	—	5,066.6
October 1997 .....	43.4	112.7	1,489.6	2,974.8	742.5	3,717.3	5,206.9	—	5,363.0
Indiana									
October 1998 .....	29.7	46.2	723.1	3,745.3	525.0	4,270.4	4,993.4	W	5,069.6
September 1998 .....	14.5	26.5	716.2	3,708.4	441.1	4,149.5	4,865.7	W	4,907.1
October 1997 .....	67.1	32.9	1,119.5	3,376.4	646.0	4,022.3	5,141.8	1.4	5,243.2
Iowa									
October 1998 .....	4.5	83.0	NA	2,256.1	173.1	2,429.2	2,638.5	—	2,726.0
September 1998 .....	2.0	34.4	251.1	2,061.0	139.8	2,200.7	2,451.9	—	2,488.3
October 1997 .....	5.0	107.2	317.3	2,459.0	188.1	2,647.1	2,964.5	—	3,076.6
Kansas									
October 1998 .....	1.9	47.3	W	1,865.8	242.2	2,108.0	2,209.9	—	2,259.1
September 1998 .....	2.5	24.3	83.9	1,903.9	173.4	2,077.3	2,161.2	—	2,188.0
October 1997 .....	3.3	107.8	74.9	1,678.9	271.4	1,950.3	2,025.2	—	2,136.3
Kentucky									
October 1998 .....	44.8	W	807.6	1,787.3	357.2	2,144.5	2,952.1	W	3,020.3
September 1998 .....	23.6	W	737.4	1,812.2	419.7	2,231.9	2,969.3	W	3,003.2
October 1997 .....	77.6	W	759.5	1,574.9	682.3	2,257.3	3,016.8	W	3,097.5
Michigan									
October 1998 .....	20.6	NA	568.9	2,677.5	370.5	3,048.1	3,616.9	—	3,708.7
September 1998 .....	19.3	NA	544.9	2,557.5	371.3	2,928.8	3,473.7	—	3,544.1
October 1997 .....	163.4	50.9	872.3	2,589.4	283.3	2,872.6	3,744.9	—	3,959.1
Minnesota									
October 1998 .....	55.4	198.0	586.3	1,883.0	244.2	2,127.2	2,713.5	W	2,971.8
September 1998 .....	W	95.3	548.0	1,819.0	302.0	2,121.0	2,668.9	W	2,919.5
October 1997 .....	112.1	214.8	718.6	2,181.4	424.5	2,605.9	3,324.5	6.6	3,658.0
Missouri									
October 1998 .....	6.4	32.4	143.1	2,706.1	181.8	2,888.0	3,031.1	—	3,069.9
September 1998 .....	2.6	16.9	145.3	2,497.8	200.5	2,698.3	2,843.6	—	2,863.0
October 1997 .....	13.9	51.6	198.8	2,850.4	254.9	3,105.3	3,304.2	—	3,369.6

See footnotes at end of table.

**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**  
(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate		
				Low-Sulfur	High-Sulfur	Total			
Nebraska									
October 1998 .....	W	57.5	82.4	1,241.9	653.1	1,895.0	1,977.4	—	2,035.5
September 1998 .....	W	32.0	107.0	1,269.4	553.3	1,822.7	1,929.7	—	1,962.6
October 1997 .....	0.8	86.9	106.1	1,157.9	851.7	2,009.6	2,115.7	—	2,203.3
North Dakota									
October 1998 .....	W	68.8	NA	659.3	NA	724.5	953.4	—	1,022.5
September 1998 .....	W	28.5	NA	692.5	NA	759.4	966.0	—	995.0
October 1997 .....	1.7	100.0	239.7	681.8	76.5	758.3	998.0	—	1,099.7
Ohio									
October 1998 .....	76.5	55.0	1,177.5	3,616.4	908.9	4,525.3	5,702.8	W	5,834.7
September 1998 .....	46.0	30.8	1,033.6	3,574.8	837.3	4,412.1	5,445.6	—	5,522.4
October 1997 .....	138.9	W	1,229.1	3,782.2	928.2	4,710.4	5,939.4	W	6,097.0
Oklahoma									
October 1998 .....	W	4.1	113.5	2,118.8	740.5	2,859.4	2,972.9	—	2,978.1
September 1998 .....	0.4	1.5	124.6	1,983.3	862.5	2,845.9	2,970.5	—	2,972.3
October 1997 .....	8.7	10.2	474.3	1,846.9	320.6	2,167.5	2,641.8	—	2,660.7
South Dakota									
October 1998 .....	—	69.9	NA	694.3	12.8	707.1	745.7	—	815.6
September 1998 .....	W	29.4	NA	698.9	12.5	711.4	743.6	—	773.3
October 1997 .....	W	W	69.6	856.6	16.7	873.4	943.0	—	1,043.0
Tennessee									
October 1998 .....	64.9	W	252.7	2,803.4	595.1	3,398.4	3,651.1	W	3,738.0
September 1998 .....	29.5	W	223.0	2,710.3	599.3	3,309.6	3,532.6	W	3,570.6
October 1997 .....	W	—	472.9	2,548.7	624.3	3,173.0	3,645.9	W	3,770.4
Wisconsin									
October 1998 .....	4.8	111.4	576.0	2,060.2	256.9	2,317.1	2,893.1	—	3,009.3
September 1998 .....	3.4	71.2	489.1	2,092.6	244.0	2,336.6	2,825.7	—	2,900.3
October 1997 .....	10.9	108.2	625.2	2,135.3	272.1	2,407.4	3,032.5	—	3,151.6
PAD District III									
October 1998 .....	505.5	39.3	1,710.4	15,852.7	7,136.8	22,989.5	24,699.9	W	25,244.8
September 1998 .....	496.7	W	1,592.1	14,807.2	6,604.9	21,412.1	23,004.2	W	23,529.5
October 1997 .....	157.7	13.6	2,186.6	15,607.4	6,613.1	22,220.5	24,407.1	—	24,578.5
Alabama									
October 1998 .....	14.9	—	385.7	1,738.1	352.8	2,090.9	2,476.6	—	2,491.5
September 1998 .....	9.3	—	336.1	1,612.4	384.1	1,996.6	2,332.6	—	2,342.0
October 1997 .....	57.7	—	443.0	1,576.6	476.0	2,052.6	2,495.6	—	2,553.3
Arkansas									
October 1998 .....	3.1	W	NA	1,888.7	734.1	2,622.8	2,686.7	—	2,691.4
September 1998 .....	1.4	—	NA	1,748.4	639.2	2,387.6	2,449.2	—	2,450.5
October 1997 .....	W	W	101.2	1,843.5	583.7	2,427.2	2,528.4	—	2,533.1
Louisiana									
October 1998 .....	W	—	371.0	1,628.2	2,741.5	4,369.6	4,740.6	—	5,070.4
September 1998 .....	W	—	341.0	1,414.8	2,322.1	3,736.9	4,077.9	—	4,406.9
October 1997 .....	11.5	—	411.2	1,645.5	2,385.2	4,030.7	4,441.9	—	4,453.4
Mississippi									
October 1998 .....	6.7	—	210.7	1,378.8	463.1	1,841.9	2,052.6	—	2,059.3
September 1998 .....	3.3	—	221.2	1,280.6	548.5	1,829.0	2,050.2	W	2,053.5
October 1997 .....	8.0	—	205.5	1,436.5	567.4	2,003.9	2,209.5	—	2,217.5
New Mexico									
October 1998 .....	W	14.6	—	1,058.0	142.3	1,200.3	1,200.3	—	1,216.1
September 1998 .....	W	3.1	—	960.2	102.1	1,062.3	1,062.3	—	1,067.4
October 1997 .....	W	W	—	992.9	172.5	1,165.4	1,165.4	—	1,177.8
Texas									
October 1998 .....	W	W	679.1	8,160.9	2,703.0	10,863.9	11,543.0	W	11,716.2
September 1998 .....	151.7	W	632.4	7,790.8	2,608.8	10,399.7	11,032.0	—	11,209.2
October 1997 .....	74.8	2.4	1,025.7	8,112.3	2,428.3	10,540.6	11,566.3	—	11,643.4
PAD District IV									
October 1998 .....	1.9	231.4	W	5,090.8	879.1	5,970.0	6,036.9	—	6,270.3
September 1998 .....	1.5	99.1	W	5,279.4	857.3	6,136.7	6,217.5	—	6,318.1
October 1997 .....	13.8	273.9	W	5,048.1	W	W	6,079.6	—	6,367.3
Colorado									
October 1998 .....	0.4	67.9	W	1,450.4	W	1,653.7	1,660.6	—	1,728.9
September 1998 .....	W	24.3	W	1,474.4	W	1,675.1	1,683.5	—	1,708.5
October 1997 .....	10.8	74.5	W	1,324.9	W	W	1,535.0	—	1,620.3

See footnotes at end of table.

**Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State**

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel <sup>a</sup>	Total Distillate and Kerosene	
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate			
				Low-Sulfur	High-Sulfur	Total				
Idaho										
October 1998 .....	—	35.2	NA	732.8	266.2	999.0	1,000.3	—	1,035.5	
September 1998 .....	W	16.7	NA	686.0	230.4	916.4	917.9	—	935.0	
October 1997 .....	0.9	33.0	W	690.5	W	W	965.9	—	999.9	
Montana										
October 1998 .....	—	61.1	—	799.5	1.5	801.0	801.0	—	862.1	
September 1998 .....	—	29.4	—	816.1	W	817.7	817.7	—	847.2	
October 1997 .....	W	W	W	W	W	W	890.0	—	967.5	
Utah										
October 1998 .....	W	19.7	NA	981.7	162.5	1,144.3	1,203.0	—	1,224.1	
September 1998 .....	W	NA	NA	1,044.5	182.6	1,227.1	1,297.9	—	1,307.8	
October 1997 .....	W	W	W	979.6	W	W	1,263.9	—	1,291.5	
Wyoming										
October 1998 .....	W	47.6	—	1,126.4	W	1,372.0	1,372.0	—	1,419.8	
September 1998 .....	W	19.2	—	1,258.4	W	1,500.4	1,500.4	—	1,519.6	
October 1997 .....	—	63.4	—	W	W	1,424.8	1,424.8	—	1,488.2	
PAD District V										
October 1998 .....	NA	341.5	282.1	17,350.7	3,316.5	20,667.2	20,949.3	97.6	21,413.7	
September 1998 .....	47.2	346.3	475.5	16,227.9	3,664.7	19,892.6	20,368.1	W	20,867.3	
October 1997 .....	NA	357.0	W	15,540.5	W	W	19,443.6	116.5	20,019.6	
Alaska										
October 1998 .....	W	300.6	264.1	29.7	480.5	510.2	774.3	W	1,161.2	
September 1998 .....	W	321.7	454.7	73.2	499.0	572.2	1,026.9	W	1,436.8	
October 1997 .....	—	W	W	W	W	W	718.2	W	1,105.6	
Arizona										
October 1998 .....	W	W	—	1,508.6	225.6	1,734.2	1,734.2	—	1,735.2	
September 1998 .....	W	—	—	1,324.9	200.1	1,525.0	1,525.0	—	1,525.4	
October 1997 .....	W	W	—	1,585.8	191.2	1,777.0	1,777.0	—	1,787.1	
California										
October 1998 .....	11.9	—	—	11,280.6	457.6	11,738.2	11,738.2	W	11,752.3	
September 1998 .....	21.1	—	—	10,720.1	447.5	11,167.7	11,167.7	W	11,189.1	
October 1997 .....	NA	W	NA	9,678.0	428.0	10,106.0	10,115.5	W	10,154.6	
Hawaii										
October 1998 .....	—	—	—	113.5	392.6	506.1	506.1	—	506.1	
September 1998 .....	—	—	—	97.8	440.0	537.8	537.8	—	537.8	
October 1997 .....	—	—	—	W	W	547.7	547.7	—	547.7	
Nevada										
October 1998 .....	NA	W	—	743.5	48.2	791.7	791.7	—	794.2	
September 1998 .....	W	—	—	623.2	50.4	673.5	673.5	—	674.0	
October 1997 .....	W	W	—	678.8	66.9	745.8	745.8	—	747.8	
Oregon										
October 1998 .....	NA	2.2	—	1,489.3	NA	2,107.3	2,107.3	W	2,125.5	
September 1998 .....	W	W	—	1,399.4	701.6	2,101.0	2,101.0	W	2,132.5	
October 1997 .....	NA	W	—	1,443.6	673.4	2,117.0	2,117.0	W	2,156.8	
Washington										
October 1998 .....	NA	36.6	18.1	2,185.5	1,094.0	3,279.5	3,297.6	W	3,339.2	
September 1998 .....	W	23.3	20.8	1,989.3	1,326.1	3,315.5	3,336.2	W	3,371.7	
October 1997 .....	49.5	W	25.4	2,030.3	1,366.7	3,397.1	3,422.5	W	3,519.9	

Dash (—) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Notes: Total Distillate = No. 1 Distillate + No. 2 Distillate + No. 4 Fuel Oil.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*. Totals may not equal the sum of the components due to rounding.

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."



## Explanatory Notes



# Explanatory Notes

## The EIA-782 Survey

### Background

The EIA-782 surveys were implemented in 1983 to fulfill the data requirements necessary to meet Energy Information Administration (EIA) legislative mandates and user community data needs. The requirements include petroleum product price, market distribution, demand (or sales), and product supply data, which are needed for a complete evaluation of petroleum market performance. The EIA-782 series includes the Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report"; Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report"; and Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

The Form EIA-782A collects refiner and gas plant operator monthly price and volume data at a State level on 14 petroleum products for various retail and wholesale marketing categories. The Form EIA-782B collects reseller/retailer monthly price and volume data at a State level for gasoline, No. 2 distillate, propane, and residual fuel. The Form EIA-782C collects prime supplier monthly volume data on 15 petroleum products. The EIA-782 forms were modified in October 1993 to reflect the changes in refined petroleum products arising out of the requirements of the Clean Air Act Amendments of 1990 (CAAA). The CAAA require that oxygenated gasoline be sold during the winter months in carbon monoxide nonattainment areas beginning October 1, 1992. They require that reformulated gasoline be sold in ozone nonattainment areas beginning January 1, 1995. Beginning October 1, 1993, diesel fuel sold for on-highway use must be low-sulfur diesel fuel (i.e., diesel fuel containing less than or equal to 0.05 percent sulfur). As a result of these environmental regulations, gasoline data collected on the EIA-782 forms were divided into *conventional*, *oxygenated*, and *reformulated* categories. Diesel fuel sales were separated into low- and

high-sulfur categories. The wholesale gasoline categories on the EIA-782A and EIA-782B forms were also modified to include *dealer tank wagon*, *rack*, and *bulk* sales. The retail categories for propane on the EIA-782A and EIA-782B were expanded to include *residential*, *commercial/institutional*, *industrial*, *sales through company-operated retail outlets*, *petrochemical*, and *other end user* sales.

### Discussion of Sample Design

The Form EIA-782A is sent to a census of refiners and gas plant operators. Respondents are selected with certainty due to their small number and because of the relative size of their sales volume.

The Form EIA-782B is sent to a scientifically selected sample of motor gasoline resellers, and distillate, propane, and residual fuel oil resellers and retailers. The Form EIA-863, "Petroleum Product Sales Identification Survey," served as the basis of the sampling frame of dealers. Information obtained from the Form EIA-863 is supplemented with information from the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." The sales volumes obtained from these surveys are used to assign measures of size for sampling. Dealers comprising 5 percent or more of sales in a State were selected with certainty. The remaining units on the frame were each assigned a probability of selection. In this design, the probability was based on the size of the company, as determined by their sales volume, relative to the total for all companies for each geographic area and type-of-sale classification relevant for that company. In addition, a random number between 0 and 1 was assigned to each company. The companies were then ordered by the ratio of the random number minus the random number times the probability to the probability minus the random number times the probability  $(r-rp)/(p-rp)$ . The first 2,200 companies in this ordering were then selected for the sample. The noncertainty companies were then post-stratified within each geographic/type-of-sale category by their volume. The sample weights, the inverse of the probabilities, were



multiplied by the sample expectation adjustment which was the ratio of the sum of the probabilities of selection for all frame units in the stratum to the actual sample size of the stratum.

The geographic areas were defined as (a) the 24 States in which No. 2 distillate was a significant heating source and 50 States and the District of Columbia for residual and motor gasoline, (b) the 25 States in which propane was a significant energy source, or as (c) the PAD Districts for districts where not all State estimates are provided. The type-of-sale classifications were retail and resale for motor gasoline and residual fuel oil, and residential and nonresidential retail and wholesale for distillate and propane. Four volume-of-sales strata (certainty, zero, low, and high) were defined with volume boundaries differing by State, sales type, and product.

The design of the EIA-782B sample was based on ten target variables: total retail motor gasoline, total wholesale motor gasoline, residential No. 2 fuel oil, other retail No. 2 fuel oil, total wholesale No. 2 fuel oil, residential propane, total other retail propane, wholesale propane, total retail residual fuel oil, and total wholesale residual fuel oil. A sample size of 2,200 was expected to yield a median level of accuracy for each target variable of volume coefficients of variation (CV) of 15 percent for No. 2 distillate and 10 percent for the other products, determined at the publishable State level (24 States for distillate, 25 for propane, 50 States and the District of Columbia for motor gasoline and residual). Studies on the relationship of volume CV to price CV have shown that this will produce price CVs of less than 1 percent. The reliability of current month estimates will vary from these goals due to the deterioration of the frame over time and the changing distributions of price and volume.

Prior to March 1997, the sample design was a linked stratified sample. Within each product, sales type, and geographic area, companies were stratified by the size of the company as determined by their sales volumes. The samples resulting from the separate stratification schemes were combined by means of joint linked selection to yield a sample size of approximately 3,500 companies. Prior to October of 1993, the sample design, the survey sample, and the survey form did not include propane.

The Form EIA-782C was sent to all prime suppliers of any of the selected products on the EIA-782C. A prime supplier is a firm that produces, imports, or transports any of the selected petroleum products

across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users. They were selected with certainty due to their small number and the relative size of their sales volumes.

## Discussion of the Sampling Frame

The EIA-782A survey consists of a census of respondents who either directly or indirectly control a refinery or gas plant facility. The EIA-782A form collects sales data on 14 refined petroleum products. Currently, 133 companies respond to the EIA-782A survey.

The EIA-863 data base provided the sampling frame for the EIA-782B survey. The Form EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 22,000 companies in January 1995, in order to collect 1994 State-level sales volume data for No. 2 distillate, residual, and motor gasoline. The No. 2 distillate data were further identified by residential/nonresidential end-use and non-end-use sales, while the residual and motor gasoline data were identified by end-use and non-end-use sales. The mailing list for the EIA-863 survey was constructed by merging and unduplicating the previous master frame file and approximately 71 State and commercial lists.

Data from the 1994 EIA-821, "Annual Fuel Oil and Kerosene Sales Report" survey were merged with data from the EIA-863 survey to yield a combined file. A transformed and edited version of this file was created to form the sample file used to design and select the EIA-782B sample.

NOTE: Service stations and smaller truck stops selling No. 2 diesel fuel were not specifically included in the frame. Therefore, the EIA-782B end-use category, "sales through company outlets," does not incorporate all sales of No. 2 distillate.

The EIA-782C survey consists of a census of suppliers who produce, import, or transport any of the 15 refined petroleum products listed on the form across State boundaries and local marketing areas, and who sell the product to local distributors, local retailers, or end users. Currently, 204 firms respond to the EIA-782C survey.

## Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and nonsampling errors.

## Measures of Sampling Variability

Tables 14 through 18, 31 through 34, and 38 through 41 utilize a sample of nonrefiners and, therefore, have sampling error. The remainder of the tables published are based on census data; therefore, there is no error due to sampling. The particular sample used for the EIA-782B is one of a large number of all possible samples that could have been selected using the same design. Estimates derived from the different samples would differ from each other. The average of these estimates would be close to the estimate derived from a complete enumeration of the population (a census), assuming that a complete enumeration has the same nonsampling errors as the sample survey.

The sampling error, or standard error of the estimate, is a measure of the variability among the estimates from all possible samples of the same size and design and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a complete enumeration.

## Nonsampling Errors

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the EIA-782 survey respondents and data

users results in a more accurate information gathering and reporting process.

## Imputation and Estimation

Survey data gathered from the respondents invariably contain incomplete reporting, nonresponse, and values that fail editing. These missing data are estimated, or imputed for, as follows. First, for all survey units, the previous month's reported value and the previous month's predicted value are weighted together to yield a predicted value for the current month. The sum of the weighted, predicted values for nonrespondents in the current month is then multiplied by a chain link multiplier (the ratio of the sum of the weighted, reported values for respondents in the current month to the sum of the weighted, predicted values for respondents in the current month). The resulting estimate for nonreported values is then added to the reported values. That is,

$$\hat{V}_t = \sum_{R,h} W_{i,h}^* V_{i,h,t} + \sum_{NR,h} W_{j,h}^* V'_{j,h,t}$$

and similarly

$$\hat{Q}_t = \sum_{R,h} W_{i,h}^* V_{i,h,t} P_{i,h,t} + \sum_{NR,h} W_{j,h}^* V'_{j,h,t} P_{j,h,t}$$

where

$$V'_{j,h,t} = \frac{\sum_{R,h,PADD} W_{i,h}^* V_{i,h,t}}{\sum_{R,h,PADD} W_{i,h}^* \tilde{V}_{i,h,t}} \tilde{V}_{j,h,t}$$

$$P'_{j,h,t} = \frac{\sum_{R,h,PADD} P_{i,h,t}}{\sum_{R,h,PADD} \tilde{P}_{i,h,t}} \tilde{P}_{j,h,t}$$

and,

$$W_{i,h}^* = \frac{\sum_{N_h} i}{n_h} (W_{i,h})$$

$W_{i,h}$  = the weight for company  $i$  in stratum  $h$ .  
For resellers/retailers responding to

EIA-782B,  $W_{i,h}$  is inversely proportional to the probability of inclusion. For all certainty units  $W_{i,h} = 1$ . The certainty units are all respondents to the EIA-782A, the EIA-782C, and the units selected with certainty for the EIA-782B.

$N_h$  = total number of population units in stratum h,

$n_h$  = number of sampled units in stratum h,

$\sum_{R,h}$  = summation across current month respondents i, all strata

$\sum_{NR,h}$  = summation across current month nonrespondents j, all strata

$V_{i,h,t}$  = current month (t) reported volume for company i, in stratum h

$P_{i,h,t}$  = current month (t) reported price for company i, in stratum h

$\hat{V}_t$  = current month (t) estimated total volume,

$\hat{Q}_t$  = current month (t) estimated total revenue,

$\tilde{V}_{i,t}$  = current month (t) predicted volume for company i, respondent,

$\tilde{P}_{i,t}$  = current month (t) predicted price for company i, respondent,

$$\tilde{V}_{i,t} = \alpha V'_{i,t-1} + (1 - \alpha) V_{i,t-1}$$

$$\tilde{P}_{i,t} = \alpha P'_{i,t-1} + (1 - \alpha) P_{i,t-1}$$

where

$V_{i,t-1}$  = previous month (t-1) reported volume for company i,

$P_{i,t-1}$  = previous month (t-1) reported price for company i,

$\alpha$  = constant between 0 and 1, set by form, product, type of sale and price or volume,

and

$$\hat{P}_t = \frac{\hat{Q}_t}{\hat{V}_t},$$

the resulting estimate of price at the published level for month t.

Multiple product data collection and linked sample selection yield two types of respondents: basic and supplemental. Both types are used for imputation, estimation, and standard errors.

The variance estimate is :

$$VAR(\hat{P}_t) = \frac{1}{\hat{V}_t^2} \sum_k N_k^2 n_k (1 - f_k) \frac{M_k}{(\sum_i W_{ik})^2}$$

where

$N_k$  = the number of population units in group k,

$n_k$  = the number of basic and volunteer respondents in group k,

$W_{ik}$  = the sampling weight for respondent i in group k,

$$f_k = \frac{n_k}{N_k}$$

and  $\hat{P}_t$  and  $\hat{V}_t$  are previously defined.

The term  $M_k$  is computed as follows:

$$M_k = \frac{\sum_i (M_{ik})^2}{n_k - 1}$$

where

$$M_{ik} = W_{ik} V_{ik} D_{ik} - \frac{W_{ik}}{(\sum_i W_{ik})} \times (\sum_i W_{ik} V_{ik} D_{ik})$$

and

$$D_{ik} = P_{ik} - \hat{P}_t$$

$V_{ik}$  = reported volume for respondent i in group k

$P_{ik}$  = reported price for respondent i in group k.

## Data Continuity

When the EIA-782 series was implemented in 1983, it replaced prior surveys that had been used to meet the Energy Information Administration's data requirements. The Form EIA-782A replaced the refiner and gas plant operator portions of the Form EIA-460, "Petroleum Industry Monthly Report for Product Prices"; and Form EIA-9A, "No. 2 Distillate Price Monitoring Report"; the Form EIA-782B replaced the nonrefiner portions of the Form EIA-460 and Form EIA-9A; and the Form EIA-782C replaced Form EIA-25, "Prime Supplier's Monthly Report."

Since the transition from the EIA-460, the EIA-9A, and the EIA-25 to the EIA-782 took place over a period of 4 months, rather than occurring at one time, it was possible to compare data from the predecessor surveys with data from the new survey during the transition period for some data elements. This comparative analysis yielded adjustment factors which reflected the estimated overall effect of the changes.

These adjustment factors were applied to the appropriate predecessor survey prices to yield a backcast estimate. A complete description of the estimation of historical data prior to January 1983 is contained in the feature article of the December 1983(3) issue of the PMM.

The backcast price estimation employed the predecessor survey published price as the initial approximation. The initial approximation, however, frequently represented less aggregated product categories and more aggregated seller/sales categories. Therefore, more comparable product categories were formed by volume weighting the disaggregated predecessor survey product prices. For the EIA-9A, comparable categories were formed by subtracting from the price the average taxes reported. Comparable seller/sales categories were formed by multiplying the predecessor price by the ratio of the EIA-782 price for the category to be estimated divided by the volume weighted prices for the aggregate of the EIA-782 categories most comparable to the predecessor category. That is,

$$\hat{P}_{460,i} = \hat{P}_{460,j} \frac{\hat{P}_{782,i}}{\hat{P}_{782,j}}$$

where i represents the EIA-782 category to be backcast and j represents the most similar category on the predecessor survey.

The backcast price series were estimated by multiplying the estimate for the previous time period from the predecessor survey by an adjustment factor:

$$\hat{P}_{782,i,t} = \hat{P}_{Predecessor,t} \times (Adjustment\ Factor)$$

where t = reference month.

Adjustment factors were computed by dividing the EIA-782 December price by the derived December predecessor price for comparable categories:

$$Adjustment\ Factor = \frac{\hat{P}_{782,i,December}}{\hat{P}_{Predecessor,i,December}}$$

The EIA-782 December 1982 price for all respondents had to be estimated since not all of the EIA-782 respondents were reporting in December. This estimate was based on the average of the ratios of the prices for the December respondents to the prices for all respondents in January, February, and March of 1982. That is,

$$\hat{P}_{782,i,December} = \hat{P}_{782,i,r,December} \div \frac{\sum_m \frac{\hat{P}_{782,i,r,m}}{\hat{P}_{782,i,m}}}{3}$$

where r = respondents who reported in the December reference month and m = the months of January, February, and March.

Starting with the September 1990 final estimates, prices published are derived using the sample described under "Discussion of Sample Design." Prices published for January 1984 through August 1990 were derived using different samples and slightly different designs (refer to the 1987 PMA for a further description). Also, the monthly price estimates from January through December 1983 were derived using another sample design (see the December 1983(3) issue of the PMM). Therefore, there may be some minor discontinuity in price estimates between August 1988 and September 1988 and between December 1983 and January 1984.

**Table EN1. Federal and State Motor Fuel Taxes<sup>1</sup>**  
(Cents per Gallon)

	Motor Gasoline	Diesel Fuel	Gasohol		Motor Gasoline	Diesel Fuel	Gasohol
Federal <sup>2</sup> . . . . .	18.40	24.40	13.00	Mississippi <sup>4</sup> . . . . .	18.40	18.40	18.40
Average State Tax . . .	19.85	19.65	19.74	Missouri <sup>4</sup> . . . . .	17.00	17.00	17.00
				Montana <sup>4</sup> . . . . .	27.75	28.50	27.75
Alabama <sup>4</sup> . . . . .	18.00	19.00	18.00	Nebraska . . . . .	24.60	24.60	24.60
Alaska . . . . .	8.00	8.00	8.00	Nevada <sup>4</sup> . . . . .	23.75	27.75	23.75
Arizona . . . . .	18.00	18.00	18.00	New Hampshire . . . . .	18.16	18.16	18.16
Arkansas . . . . .	18.60	18.60	18.60	New Jersey <sup>3</sup> . . . . .	10.50	13.50	10.50
California <sup>3,4</sup> . . . . .	18.00	18.00	18.00	New Mexico . . . . .	18.88	19.88	18.88
Colorado . . . . .	22.00	20.50	22.00	New York <sup>3,4</sup> . . . . .	22.65	21.85	22.65
Connecticut <sup>3</sup> . . . . .	32.00	18.00	31.00	North Carolina . . . . .	21.60	21.60	21.60
Delaware . . . . .	23.00	22.00	23.00	North Dakota . . . . .	20.00	20.00	20.00
District of Columbia . .	20.00	20.00	20.00	Ohio . . . . .	22.00	22.00	22.00
Florida <sup>4</sup> . . . . .	13.00	13.00	13.00	Oklahoma . . . . .	17.00	14.00	17.00
Georgia <sup>3,4</sup> . . . . .	7.50	7.50	7.50	Oregon <sup>4</sup> . . . . .	24.00	24.00	24.00
Hawaii <sup>3,4</sup> . . . . .	16.00	16.00	16.00	Pennsylvania . . . . .	25.90	30.80	25.90
Idaho . . . . .	25.00	25.00	22.50	Rhode Island . . . . .	29.00	29.00	29.00
Illinois <sup>3,4</sup> . . . . .	19.00	21.50	19.00	South Carolina <sup>4</sup> . . . . .	16.00	16.00	16.00
Indiana <sup>3</sup> . . . . .	15.00	16.00	15.00	South Dakota . . . . .	21.00	21.00	19.00
Iowa <sup>3</sup> . . . . .	20.00	22.50	19.00	Tennessee . . . . .	20.00	17.00	20.00
Kansas . . . . .	18.00	20.00	18.00	Texas . . . . .	20.00	20.00	20.00
Kentucky . . . . .	16.40	13.40	16.40	Utah . . . . .	24.50	24.50	24.50
Louisiana . . . . .	20.00	20.00	20.00	Vermont . . . . .	20.00	17.00	20.00
Maine . . . . .	19.00	20.00	19.00	Virginia <sup>3</sup> . . . . .	17.50	16.00	17.50
Maryland . . . . .	23.50	24.25	23.50	Washington <sup>4</sup> . . . . .	23.00	23.00	23.00
Massachusetts . . . . .	21.00	21.00	21.00	West Virginia <sup>3</sup> . . . . .	20.50	20.50	20.50
Michigan <sup>3</sup> . . . . .	19.00	15.00	19.00	Wisconsin . . . . .	24.80	24.80	24.80
Minnesota <sup>3</sup> . . . . .	20.00	20.00	20.00	Wyoming . . . . .	14.00	14.00	14.00

<sup>1</sup> This figure lists rates of general application (including, but not limited to, excise taxes, environmental taxes, special taxes, and inspection fees), exclusive of county and local taxes. Rates are also exclusive of any State taxes based on gross or net receipts. The State rates are effective July 1, 1998.

<sup>2</sup> The Federal tax on motor gasoline and diesel fuel increased to 18.4 and 24.4 cents, respectively, on October 1, 1997.

<sup>3</sup> Additional State taxes are levied as follows: California: 7.25 percent sales tax; Connecticut: 5 percent gross earnings tax; Georgia: 4 percent sales tax; Hawaii: 4 percent gross income tax; Illinois: 6.25 percent sales tax; Indiana: 5 percent sales tax; Iowa: 1 percent environmental protection tax; Michigan: 6 percent sales tax; New Jersey: gross receipts tax of 4 cents per gallon for on-highway use fuels; New York: 4 percent sales tax; Virginia: 2 percent sales tax in areas where mass transit systems exist; West Virginia: Consumer and sales tax of 4.85 cents per gallon.

<sup>4</sup> Local option taxes (LOTS) are allowed. In Florida, the State assesses a State Comprehensive Enhanced Transportation System (SCETS) tax which is two-thirds of each county's rate. In addition, the State collects a "ninth cent tax" and a second local tax. These taxes add an average of 11.8 cents to the motor fuel State tax. In Hawaii, LOTS are as follows: Honolulu: 16.5 cents per gallon; Maui: 13.0 cents per gallon; Hawaii: 8.8 cents per gallon; Kauai: 10.0 cents per gallon.

**Table EN 2. U.S. Postal Two-Letter State Abbreviations**

State Code	State	State Code	State	State Code	State
AL	Alabama	KY	Kentucky	ND	North Dakota
AK	Alaska	LA	Louisiana	OH	Ohio
AZ	Arizona	ME	Maine	OK	Oklahoma
AR	Arkansas	MD	Maryland	OR	Oregon
CA	California	MA	Massachusetts	PA	Pennsylvania
CO	Colorado	MI	Michigan	RI	Rhode Island
CT	Connecticut	MN	Minnesota	SC	South Carolina
DE	Delaware	MS	Mississippi	SD	South Dakota
DC	District of Columbia	MO	Missouri	TN	Tennessee
FL	Florida	MT	Montana	TX	Texas
GA	Georgia	NE	Nebraska	UT	Utah
HI	Hawaii	NV	Nevada	VT	Vermont
ID	Idaho	NH	New Hampshire	VA	Virginia
IL	Illinois	NJ	New Jersey	WA	Washington
IN	Indiana	NM	New Mexico	WI	Wisconsin
IA	Iowa	NY	New York	WV	West Virginia
KS	Kansas	NC	North Carolina	WY	Wyoming

## Collection Methods

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA within the specified time allotted. For the EIA-782A and B, completed forms must be submitted no later than 30 calendar days after the close of each reference month. For the EIA-782C, completed forms must be submitted no later than 20 calendar days after the close of the reference month. Telephone follow-up calls to nonrespondents begin the day after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

## Data Processing

As EIA-782 forms are received, they are logged into an automated Survey Control File which maintains monthly status codes for each company. The data are

reviewed manually and then entered onto the computer files. They are then processed through an automated edit program which detects missing data, inconsistent prices, volumes and prices that significantly differ from those previously reported by the company, and outlying values that will affect published estimates. Data that fail the edits are resolved through telephone calls to the data reporters, and corrections and verification codes are entered onto the computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data.

## Nondisclosure

The data contained in this publication are subject to statistical nondisclosure procedures. The objective of the disclosure-avoidance procedures, as stated in the Energy Information Administration Standard 88-05-06, Subject: "Nondisclosure of Company Identifiable

Data in Aggregate Cells," is to ensure that confidential, company-identifiable data are not disclosed in tables where "company specific responses may be proprietary and prohibited from public disclosure by 18 U.S.C. 1905." Statistics representing data aggregated from fewer than three companies or that are dominated by input from one or two companies are withheld. EIA identifies cells that are sensitive according to these criteria by applying a statistical formula to the data contained in each cell to determine if a few companies "dominate" the cell.

If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since many tables include row or column totals, some non-sensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

### Relationship of Refiner and Prime Supplier Sales Volumes

The refiner sales volumes collected on the EIA-782A are related to the prime supplier sales volumes collected on the EIA-782C, but conceptual differences exist that cause variations between these data. In general, EIA-782A volumes are intended to reflect *refiner sales* of petroleum products into *all secondary and tertiary markets*, while EIA-782C volumes are designed to measure *prime supplier sales* into only the *local markets of final consumption*. Specifically:

The reporting universe for the EIA-782C survey is significantly larger than that of the EIA-782A. While nearly all refiners and gas plant operators report on both surveys (a small number do not qualify as prime suppliers), some large, inter-State distributors and retailers, as well as some importers, report only on the EIA-782C.

EIA-782A respondents are asked only to exclude sales to other refiners (that is, other respondents that comprise the primary market), while EIA-782C respondents are asked to exclude sales to any company that is not a local distributor, local retailer, or end user (DRE). Therefore, EIA-782C respondents are asked not only to exclude sales to refiners, but also to most large inter-State resellers, importers, traders, and retailers who transport products across State boundaries.

The EIA-782A is designed to gather data on the sales of selected petroleum products made in each State,

regardless of where the products are physically located or will be consumed. In contrast, the EIA-782C is designed to collect data reflecting only delivered sales of selected petroleum products into those States where the products are expected to be locally consumed.

Consequently, EIA-782A and EIA-782C volumetric data generally vary at national, regional, and State levels. In particular, differences are expected in States and regions in which major supply origination, pipeline distribution, or transfer points are located. In these States, large volumes of products may change hands many times, often for eventual shipment outside the State. Since the EIA-782C is intended to measure only those sales into the final local markets of consumption (sales to DREs), all preceding sales are excluded. Furthermore, sales by EIA-782C respondents are reported wherever the product was delivered, which may differ from the State where title transferred. In contrast, the EIA-782A reflects all sales made to secondary resellers, wherever title transfers.

Additionally, the EIA-782C reflects imports by firms that are neither refiners nor gas plant operators, that would not be measured on the EIA-782A unless they were transferred to a distribution chain. This mostly affects regions with a high level of product imports, such as the New England or Mid-Atlantic States.

Therefore, States with major refining areas, such as Texas or California, generally show higher volumes on the EIA-782A survey than the EIA-782C survey, since some of the volumes reported on the EIA-782A are excluded on the EIA-782C or are reported in different States. Conversely, net consuming States (e.g., most PAD District I and PAD District II States) may show larger prime supplier sales on the EIA-782C due to inter-State movements or imports by resellers and/or differences in State of delivery versus title transfer. However, this may be partially or entirely offset by some refiners reporting larger sales volumes on the EIA-782A than on the EIA-782C (due to fewer exclusions taken on the EIA-782A).

In summary, caution should be exercised when comparing sales volumes between refiners and prime suppliers. Whereas EIA-782A data reflect the marketing of products by refiners to non-refiners where the sale occurs, EIA-782C data reflect prime supplier sales to local distributors, local retailers, and end users where the product is delivered. Therefore, the EIA-782A and EIA-782C surveys differ by the respondents reporting (refiners versus prime suppli-

**Table EN3. Revision Error in Selected 1997 U.S. Average Price Data**  
(Cents per Gallon Excluding Taxes)

Date	Refiner/Reseller Unleaded Regular Sales to End Users			No. 2 Distillate Sales to Residential Customers			Residual Fuel Oil Sales to End Users		
	PMM	Final	Difference	PMM	Final	Difference	PMM	Final	Difference
January . . . . .	84.0	83.9	0.1	107.9	107.9	0.0	50.3	50.6	-0.3
February . . . . .	82.8	82.8	0.0	105.1	105.1	0.0	45.7	46.3	-0.6
March . . . . .	80.6	80.6	0.0	101.1	101.6	-0.5	41.0	41.3	-0.3
April . . . . .	79.9	79.8	0.1	99.1	99.2	-0.1	40.2	40.4	-0.2
May . . . . .	80.1	80.2	-0.1	96.2	96.4	-0.2	40.0	40.1	-0.1
June . . . . .	79.0	79.0	0.0	92.5	92.3	0.2	40.4	40.3	0.1
July . . . . .	77.6	77.6	0.0	88.2	88.3	-0.1	39.7	39.8	-0.1
August . . . . .	82.6	82.6	0.0	86.9	86.9	0.0	40.9	40.9	0.0
September . . . . .	82.5	82.4	0.1	88.6	88.7	-0.1	41.5	41.5	0.0
October . . . . .	79.5	79.5	0.0	92.1	92.3	-0.2	44.5	44.6	-0.1
November . . . . .	76.6	76.6	0.0	93.9	94.1	-0.2	46.8	46.8	0.0
December . . . . .	72.5	72.5	0.0	93.8	93.8	0.0	41.6	41.5	0.1

Sources: PMM data are from Tables 15, 31, and 42 of the *Petroleum Marketing Monthly*. Final data are from Tables 15, 31, and 42 of the *Petroleum Marketing Annual*, 1997.

**Table EN4. Revision Error in Selected 1997 Refiner Sales Volume Data**  
(Million Gallons)

Date	Motor Gasoline Sales for Resale			No. 2 Distillate Sales for Resale			Residual Fuel Oil Sales to End Users		
	PMM	Final	Percent Change	PMM	Final	Percent Change	PMM	Final	Percent Change
January . . . . .	275.7	272.8	1.1	127.8	128.5	-0.5	14.5	13.8	4.8
February . . . . .	291.4	285.4	2.1	122.3	121.1	1.0	16.5	14.5	17.6
March . . . . .	291.3	287.1	1.4	120.6	120.1	0.4	13.9	13.6	2.2
April . . . . .	296.3	293.0	1.1	120.9	121.0	-0.1	11.5	11.5	0.0
May . . . . .	300.0	293.3	2.2	116.2	114.3	1.6	11.1	10.7	3.6
June . . . . .	297.0	293.5	1.2	118.4	118.6	-0.2	11.7	12.3	-5.1
July . . . . .	306.9	307.9	-0.3	116.2	117.3	-0.9	13.9	13.5	-2.9
August . . . . .	303.5	304.0	-0.2	111.3	112.0	-0.6	12.5	12.1	3.2
September . . . . .	290.8	290.4	0.1	121.4	121.0	0.3	13.2	12.6	4.5
October . . . . .	299.5	299.6	0.0	127.5	126.0	1.2	15.8	15.1	4.4
November . . . . .	286.1	286.4	-0.1	113.6	113.6	0.0	14.4	14.4	0.0
December . . . . .	298.5	298.4	0.0	125.6	125.7	-0.1	17.7	17.5	1.1

Sources: PMM data are from Tables 7, 46, and 47 of the *Petroleum Marketing Monthly*. Final data are from Tables 7, 46, and 47 of the *Petroleum Marketing Annual*, 1997.



**Table EN5. Revision Error in Selected Volumes of 1997 Prime Supplier Sales Data**  
(Million Gallons)

Date	Total Motor Gasoline			Total No. 2 Distillate			Total Residual Fuel Oil		
	PMM	Final	Percent Change	PMM	Final	Percent Change	PMM	Final	Percent Change
January . . . . .	319.0	317.6	0.4	150.2	150.3	-0.1	33.4	33.1	0.9
February . . . . .	335.0	318.4	5.0	146.1	140.0	4.2	33.9	31.9	5.9
March . . . . .	336.8	335.8	0.3	141.3	141.1	0.1	28.4	27.8	2.1
April . . . . .	343.8	344.1	-0.1	143.6	143.2	0.3	24.9	25.0	-0.4
May . . . . .	347.8	348.1	-0.1	134.9	134.1	0.6	24.1	24.2	-0.4
June . . . . .	351.8	351.1	0.2	131.3	129.5	1.4	24.6	25.1	-2.0
July . . . . .	364.6	363.4	0.3	132.9	131.8	0.8	27.5	27.2	1.1
August . . . . .	357.4	358.4	-0.3	129.9	129.3	0.5	27.3	27.0	1.1
September . . . . .	343.2	343.1	0.0	139.8	139.3	0.4	26.8	26.8	0.0
October . . . . .	351.4	351.4	0.0	148.2	146.8	0.9	30.1	30.5	-1.3
November . . . . .	337.9	337.6	0.1	135.6	135.2	0.3	33.5	33.4	0.3
December . . . . .	349.3	348.6	0.2	147.1	146.7	0.3	36.0	35.0	2.8

Sources: PMM data are from Tables 48, 49, and 50 of the *Petroleum Marketing Monthly*. Final data are from Tables 48, 49, and 50 of the *Petroleum Marketing Annual*, 1997.

ers), the types of sales reported (sales to non-refiners versus sales to DREs), and the location of the reported sales (point of title transfer versus destination of the sale).

## Revision Error

The petroleum product price and volume data shown for the current month are preliminary. These numbers may be revised in the next month's publication based on data received late or revisions received. For example, if the latest data shown are for the month of February, the February data are preliminary and the January data may have been revised due to the receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). The difference between the data when they appear in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected EIA-782 data series is shown in Tables EN3 - EN5.

## The Crude Oil Price Surveys

### Background

#### Form EIA-182: "Domestic Crude Oil First Purchase Report"

Each month, the Form EIA-182 collects data from the buyers on first purchases of domestic crude oil. A "first purchase" constitutes a transfer of ownership of crude oil during or immediately after the physical removal of the crude oil from a production property for the first time. Transactions between affiliated companies are reported as if they were "arms-length" transactions. (This definition is consistent with the Windfall Profits Tax (WPT) concepts of "first sale" and "removal price.") The primary objective is to calculate an average first purchase price at various levels of aggregation. A company's monthly average first purchase prices are volume weighted across given geographical areas for selected crude streams and gravity bands. Prices are computed from the following reported data elements:

**Area of production.** The producing State or non-State production "area" (i.e., Alaska North Slope, Alaska Other Mainland, Federal Offshore California and Federal Offshore Gulf--about one-fifth off Texas and the remainder off Louisiana).

**Average cost.** Reported f.o.b. the lease boundary and based on the actual purchase expenditures, including discounts or premiums paid.

**Total volume purchased.** The amount of crude bought and paid for as it is measured at the lease boundary (usually at a lease automatic custody transfer unit--a LACT unit), adjusted for basic sediment and water (BS&W) and temperature.

Prices published from data collected on Form EIA-182 are calculated by dividing the sum of the total average costs paid by the sum of the total volumes purchased.

### **Form EIA-856: "Monthly Foreign Crude Oil Acquisition Report"**

The Form EIA-856 collects monthly price and volume data for about 90 percent of all crude oil imported into the United States. It also collects classification data that enable EIA to determine the terms of an acquisition. The data are reported for the parent company and all the affiliates controlled by the parent. Under this definition, the acquisition price reported for each cargo is the one paid to an unaffiliated seller, in principle an "arms-length" price, which is consistent with use of the data to represent market trends, rather than monitoring internal company transfer pricing policies.

Each month, respondents report the following for cargos acquired for U.S. importation:

**Offshore inventories.** Crude oil owned by the respondent that is intended for importation into the United States. These inventories include oil in tankers enroute to the United States and floating or on-land storage outside the United States.

**Crude type.** Includes the country of origin of the cargo of crude, the stream or type of crude oil (e.g., Saudi Light), and the API gravity.

**Volume acquired.** The number of 42 U.S. gallon barrels in the cargo.

**Dates.** The date of loading/acquisition and the expected date of landing.

**Transportation.** Ports of loading and landing and the name of the vessel.

**Prices.** Acquisition cost, landed cost, and other costs such as demurrage, agent's fees, import tariffs and fees, etc. (all costs are reported in dollars per barrel).

**Days credit.** The number of days credit is extended to the purchaser by the seller.

**Purchase classifying information.** Type of transaction (e.g., purchase from host government), terms of transaction (spot or contract), and point of transaction (f.o.b. (free on board), country of origin or CIF (cost, insurance, and freight), U.S. port of entry).

Published prices are calculated by first multiplying the purchase volume by a price to obtain a total cost, then the sums of the total costs are divided by the sums of the purchase volumes.

The prices associated with data collected on Form EIA-856 are aggregated within the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. By design, the prices are not aggregated for the month in which they are determined, unless the acquisition and price determination month are the same. EIA-856 data reflect types of trades occurring over the entire spectrum of international crude oil markets, ranging from continuing supply agreements to spot market purchases. Prices can be determined at time of loading or at time of landing. Prices can be negotiated between the parties involved or tied to spot or futures market price levels. The methodology chosen for the EIA-856 provides a consistent historical series even though its prices may not always agree with measures of prices from other sources.

International crude oil markets are complex and dynamic. For example, a cargo of Saudi Arabian crude oil could be acquired in June at a loading port in Saudi Arabia. The cargo may land in the United States in August. The price for the crude oil could be determined by spot crude oil prices in effect during the 5 days before and after landing. For the PMM, the price for this cargo will be aggregated in the month of June, when it was acquired. Conversely, a cargo of Brent crude may be acquired in June, but its price may have been determined in the forward Brent market in April. This cargo's price will also be aggregated in June, when the purchaser took title to the crude.

In the early 1980's, most crude oil prices were set by the country selling the crude. Gradually, as the supply of crude oil became more abundant, markets became more competitive. A robust spot market for

crude evolved, in which prices for crude oil were determined by demand and supply. Frequently, the official sales price set by the selling government was considerably different than spot market assessments. As buyers began to purchase more crude oil on the spot market, the control that sellers had theretofore exercised eroded.

In order to protect their market share, crude oil producing governments began to tie prices for their crude to market-related prices. When these market-related pricing formulas came into prominence in late 1985, many crude oil prices were tied to a "netback realization," wherein a crude oil's value was determined by volume weighted spot market prices of products derivable from that crude. The weights essentially reflected the relative yield of selected products from a given crude stream. These netback-based formulas gradually gave way to formulas based on spot crude oil assessments.

The formulas and terms used by sellers of crude oil continue to change. Since the EIA-856 prices are aggregated by month of acquisition--not necessarily the same as month of price determination--they may not always show the same pattern as a series from another source (e.g., trade-press publications). During periods of dramatic change in crude oil prices, aggregate prices derived from EIA-856 data will tend to "lead" the market. That is, these prices will show the emerging trend earlier, reach the inflection point sooner, and then return to the underlying trend. When averaged over longer periods of time, however, EIA-856 prices show the same relative price movements as exogenous sources.

### **Form EIA-14: "Refiners' Monthly Cost Report"**

The EIA-14 is a monthly census of all U.S. refiners. It collects the net acquisition costs and volumes of crude oil, both domestic and imported, on a corporate national basis (i.e., not for individual refineries). Included in the costs are all charges associated with the acquisition, transportation, and storage of crude incurred by respondents up to the time the oil is booked into their refineries.

Each month, refiners report the volume (in thousands of barrels) and costs (in thousands of dollars) for:

**Domestic crude oil.** Oil produced in the United States or from its outer continental shelf.

**Imported crude oil.** Oil produced outside the United States and brought into the United States for domestic processing.

**Unfinished oil.** All other oils, both domestic and imported, requiring further refining, except those requiring only mechanical blending.

Average prices are calculated by dividing the sum of the costs by the sum of the volumes.

## **Respondent Frame**

### **Form EIA-182:**

All firms that buy domestic crude oil at the lease boundary, acquiring ownership of the crude in a first purchase transaction. The list initially was compiled from the 1974 Federal Energy Administration (FEA) Oil and Gas Survey of Producers and Operators. Collection of data from first purchasers began in February 1976. By 1978, the frame consisted of 340 respondents. Of these, 198 purchased more than 150,000 barrels per year and together represented 99.9 percent of the total reported volume.

Adjustments to the frame have mostly been "deaths," with relatively few "births." Following decontrol in January 1981, there was a major contraction of the list of active first purchasers. Many small firms went out of business or were absorbed by larger companies. More recent changes include several mergers among majors and one breakup of a major company. Currently, the EIA-182 survey collects data from 87 active respondents.

### **Form EIA-856:**

All companies that were reporting data on the ERA-51, "Transfer Pricing Report," as of June 1982, regardless of the total volumes of crude oil that are imported. In addition, all other companies that acquire more than 500,000 barrels of foreign crude oil in the report month for importation into the United States are required to prepare and submit an EIA-856 for that month.

### **Form EIA-14:**

All refiners of crude oil in the United States, including its territories and possessions. There are currently 79 active respondents to the EIA-14.

The list of respondents to the EIA-14 is updated annually by supplementation from the EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and the EIA-810, "Monthly Refinery Report."

## Data Collection Processing

All three crude oil data collection systems are operated independently. Each performs similar data collection and processing functions that are outlined below.

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA no later than 30 calendar days after the close of each reference month. Telephone follow-up calls to nonrespondents begin 2 days after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

The forms are logged and reviewed manually. The data are then entered onto computer files. The files are then processed through an automated edit program which detects missing data, inconsistent prices, and outlying values that affect published estimates. Data that fail the edits are resolved through telephone calls to data reporters, and corrections and verification codes are entered onto computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data. Response rates are normally 100 percent by the time final statistics are calculated.

## Nondisclosure

The data contained in this publication are subject to statistical nondisclosure procedures. The objective of the disclosure-avoidance procedures, as stated in the Energy Information Administration Standard 88-05-06, Subject: "Nondisclosure of Company Identifiable Data in Aggregate Cells," is to ensure that confidential, company-identifiable data are not disclosed in tables where "company specific responses may be proprietary and prohibited from public disclosure by 18 U.S.C. 1905." Statistics representing data aggregated from fewer than three companies or that are dominated by input from one or two companies are withheld. EIA identifies cells that are sensitive according to these criteria by applying a statistical formula to the data contained in each cell to determine if a few companies "dominate" the cell.

If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since many tables include row or column totals, some non-sensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

## Data Continuity

The crude oil statistics published in the *Petroleum Marketing Monthly* constitute both a republishing of numbers that already appear in the *Monthly Energy Review* (MER) and the *Annual Energy Review* (AER), and a simple extension of the detail of such statistics. These statistics have been published for a number of years in the MER and AER. The data currently collected through the crude oil surveys are compatible with data used to derive statistics for the historical series. The definitions, respondents, and processing have not changed substantially over the years the data have been collected. The target populations and the computational algorithms have remained virtually unchanged.

## Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Since the crude oil surveys are based on a census of the population, these surveys contain no sampling error.

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information from all respondents in the survey (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the survey respondents and data users results in a more accurate information gathering and reporting process.

**Table EN6. Revision Error in 1997 Refiner Acquisition Cost Data**  
(Dollars per Barrel)

Date	Refiner Acquisition Costs								
	Domestic			Imported			Composite		
	PMM	Final	Difference	PMM	Final	Difference	PMM	Final	Difference
January . . . . .	24.24	24.25	-0.01	23.05	23.02	0.03	23.59	23.59	0.00
February . . . . .	22.49	22.49	0.00	20.58	20.88	-0.30	21.44	21.64	-0.20
March . . . . .	20.59	20.57	0.02	19.16	19.16	0.00	19.82	19.82	0.00
April . . . . .	18.99	19.02	-0.03	17.79	17.83	-0.04	18.32	18.35	-0.03
May . . . . .	19.19	19.08	0.11	18.53	18.55	-0.02	18.83	18.79	0.04
June . . . . .	18.44	18.31	0.13	17.39	17.35	0.04	17.87	17.80	0.07
July . . . . .	18.36	18.25	0.11	17.50	17.49	-0.01	17.89	17.84	0.05
August . . . . .	18.59	18.47	0.12	17.96	17.96	0.00	18.23	18.19	0.04
September . . . . .	18.59	18.48	0.11	17.96	17.85	0.11	18.23	18.14	0.09
October . . . . .	19.58	19.68	-0.10	18.95	18.73	0.22	19.23	19.17	0.06
November . . . . .	19.73	19.23	0.50	18.88	17.88	1.00	19.26	18.52	0.74
December . . . . .	17.93	17.92	0.01	16.18	15.95	0.23	17.00	16.91	0.09

Sources: PMM data are from Table 1 of the *Petroleum Marketing Monthly*. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1997.

**Table EN7. Revision Error in 1997 Domestic First Purchase Price Data**  
(Dollars per Barrel)

Month	PMM	Final	Difference
January . . . . .	21.76	21.76	0.00
February . . . . .	19.41	19.38	0.03
March . . . . .	17.88	17.83	0.05
April . . . . .	16.63	16.63	0.00
May . . . . .	17.25	17.23	0.02
June . . . . .	15.90	15.88	0.02
July . . . . .	15.90	15.89	0.01
August . . . . .	16.22	16.19	0.03
September . . . . .	16.44	16.41	0.03
October . . . . .	17.68	17.66	0.02
November . . . . .	16.84	16.83	0.01
December . . . . .	15.07	15.04	0.03

Sources: Preliminary data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1997.

**Table EN8. Revision Error in 1997 Foreign Crude Oil Acquisition Cost Data**  
(Dollars per Barrel)

Month	FOB Cost of Imports			Landed Cost of Imports		
	PMM	Final	Difference	PMM	Final	Difference
January .....	21.55	21.19	0.36	22.76	22.21	0.55
February .....	19.13	18.99	0.14	20.27	19.98	0.29
March .....	17.11	17.11	0.00	18.60	18.45	0.15
April .....	16.11	16.20	-0.09	17.44	17.52	-0.08
May .....	16.78	16.81	-0.03	17.97	17.87	0.10
June .....	15.78	15.99	-0.21	16.98	17.12	-0.14
July .....	16.18	16.37	-0.19	17.17	17.27	-0.10
August .....	16.49	16.68	-0.19	17.56	17.78	-0.22
September .....	16.57	16.76	-0.19	17.66	17.85	-0.19
October .....	17.39	17.26	0.13	18.70	18.51	0.019
November .....	16.27	16.12	0.15	17.63	17.35	0.28
December .....	14.19	14.21	-0.02	15.84	15.70	0.14

Sources: PMM data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1997.

## Imputation

Since the response rates for the crude oil survey are virtually 100 percent, there are no imputation procedures in the PMM data for nonresponse to these surveys. Imputation is performed, however, on EIA-182 volume data used in estimating crude oil production published in the *Petroleum Supply Monthly* (PSM). Since production estimates for the PSM are required on an expedited schedule, some responses are imputed for the PSM. However, all responses are received prior to the publication of the PMM, thus no imputation is required for the price data published in the PMM. See Note 4 in the Explanatory Notes in the PSM for additional information on the use of EIA-182 data in estimating domestic crude oil production.

## Revision Error

The crude oil values shown for Domestic First Purchase Prices and Refiner Acquisition Cost (RAC) for the current month and for Average Landed Costs for the current 2 months are preliminary. These numbers are revised in the month after the preliminary month(s) based on data received late or revisions received. For example, in the February publication, the February RAC data are preliminary and the January RAC data may have been revised due to receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). In the above example, the difference between the January RAC data in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected crude oil data series is shown in Tables EN6 through EN8.

## Initial Estimates of Petroleum Prices

The initial estimates are forecasts of U.S. and PADD prices for crude oil and selected petroleum products published in the *Petroleum Marketing Monthly (PMM)*. The initial estimates are published 1-2 months ahead of the normal publication schedule for the *PMM*. The initial estimates are forecasted using an autoregressive integrated moving average (ARIMA) transfer function models. The initial estimate is calculated based on its own past values and present and past

values of other related time series, such as spot prices and heating degree-days. At least 5 years of data are used to obtain the forecasts.

One method of forecast evaluation is to compare actual to one month ahead forecast values for a 12 month period. Then, the Average Absolute Difference (AAD) is calculated. This provides a good indicator of the error associated with the forecasts. For the period January 1997 to December 1998, the forecasted values were within 2 cents of the actual value for 85% of the petroleum products and within 30 cents of the actual value for the crude oil forecasts.

# Product Guide



## Product Guide

Category	Table	
	Prices	Volumes
<b>Crude Oil</b>		
Refiner Acquisition Cost .....	1	--
Domestic First Purchases .....	1	--
from selected States .....	21	--
by API gravity .....	23	--
for selected crude streams .....	22	--
Imports		
F.O.B. Costs .....	1	--
from selected countries .....	24	--
by API gravity .....	26	--
for selected crude streams .....	29	--
Landed Costs .....	1	--
from selected countries .....	25	--
by API gravity .....	27	--
for selected crude streams .....	30	--
Percentage by Gravity Band .....	28	--
<b>Motor Gasoline</b>		
all sellers .....	31	--
refiners .....	2,4,6,35	3,5,7,43,44
prime suppliers .....	--	48
Conventional		
all sellers .....	32	--
refiners .....	8	9,44
prime suppliers .....	--	48
Oxygenated		
all sellers .....	33	--
refiners .....	10	11,44
prime suppliers .....	--	48
Reformulated		
all sellers .....	34	--
refiners .....	12	13,44
prime suppliers .....	--	48
<b>Aviation Gasoline</b>		
refiners .....	2,4,36	3,5,45
prime suppliers .....	--	49
<b>Kerosene-Type Jet Fuel</b>		
refiners .....	2,4,36	3,5,45
prime suppliers .....	--	49
<b>Naphtha-Type Jet Fuel</b>		
prime suppliers .....	--	49
<b>Propane, Consumer Grade</b>		
all sellers .....	14,38	--
refiners .....	2,4	3,5,45
prime suppliers .....	--	49

## Product Guide

Category	Table	
	Prices	Volumes
<b>Kerosene</b>		
refiners . . . . .	2,4,36	3,5,45
prime suppliers . . . . .	--	50
<b>No. 1 Distillate</b> . . . . .		
refiners . . . . .	2,4,37	3,5,45
prime suppliers . . . . .	--	50
<b>No. 2 Distillate</b> . . . . .		
all sellers . . . . .	15,18,39	--
refiners . . . . .	2,4,37	3,5,46
prime suppliers . . . . .	--	50
<b>No. 2 Diesel Fuel</b>		
all sellers . . . . .	16,17,40	--
refiners . . . . .	2,4	3,5,46
prime suppliers . . . . .	--	50
<b>Low-Sulfur</b>		
all sellers . . . . .	17,41	--
refiners . . . . .	--	3,5,46
prime suppliers . . . . .	--	50
<b>High-Sulfur</b>		
all sellers . . . . .	17,41	--
refiners . . . . .	--	3,5,46
prime suppliers . . . . .	--	50
<b>No. 2 Fuel Oil</b>		
refiners . . . . .	2,4	3,5,46
prime suppliers . . . . .	--	50
<b>No. 4 Fuel</b>		
all sellers . . . . .	37	--
refiners . . . . .	2,4	3,5,47
prime suppliers . . . . .	--	50
<b>Residual Fuel Oil</b>		
all sellers . . . . .	42	--
refiners . . . . .	2,4,19	3,5,20,47
prime suppliers . . . . .	--	49
<b>Sulfur Content less than or equal to 1%</b>		
all sellers . . . . .	42	--
refiners . . . . .	19	20,47
prime suppliers . . . . .	--	49
<b>Sulfur Content greater than 1%</b>		
all sellers . . . . .	42	--
refiners . . . . .	19	20,47
prime suppliers . . . . .	--	49



## Glossary



# Glossary

**API Gravity:** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Deg API} = \frac{141.5}{\text{sp gr}_{60\text{degF}/60\text{degF}}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

**ASTM:** American Society for Testing and Materials.

**Aviation Gasoline (Finished):** All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D 910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

**Barrel:** A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons.

**Bulk Sales:** Wholesale sales of gasoline in individual transactions which exceed the size of a truckload.

**CIF:** Cost, insurance, and freight. A type of sale in which the buyer of the product agrees to pay a unit price that includes the f.o.b. value of the product at the point of origin plus all costs of insurance and transportation. This type of transaction differs from a "delivered" purchase, in that the buyer accepts the quantity as determined at the loading port (as certified by the bill of lading and quality report) rather than pay based on the quantity and quality ascertained at the unloading port. It is similar to the terms of an f.o.b. sale, except that the seller, as a service for which he is compensated, arranges for transportation and insurance.

**Commercial/Institutional:** Firms engaged in transportation, wholesale or retail trade, finance, insurance, and real estate. Also included are apartment buildings/complexes and other multifamily dwellings, hotels and office buildings or complexes, local, State, or Federal facilities or organizations including the military, schools, hospitals, religious institutions, universities, and all other government-supported organizations.

**Conventional Gasoline:** See Motor Gasoline.

**Crude Oil (including lease condensate):** A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Includes lease condensate and drip gas, as well as liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Excludes topped crude oil, residual oil, other unfinished oils, and liquids produced at natural gas processing plants and mixed with crude oil, where identifiable. Crude oil is considered as either domestic or imported according to the following:

1. **Domestic Crude Oil:** Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 U.S.C. 1331.
2. **Imported Crude Oil:** Crude oil produced outside the United States and brought into the United States.
3. **First purchase volume and cost data** for crude oil are classified in accordance with what the product was sold as, regardless of the actual specifications. Hence, its volumes may include some of the excluded liquids discussed above.

**Crude Oil Acquisitions (unfinished oil acquisitions):** The volume of crude oil either (1) acquired by the respondent for processing for its own account in accordance with accounting procedures generally accepted and consistently and historically applied by

the refiner concerned, or (2) in the case of a processing agreement, delivered to another refinery for processing for the respondent's own account.

Crude oil which has been added by a refiner to inventory, and which is thereafter sold or otherwise disposed of without processing for the account of that refiner, shall be deducted from its crude oil purchases at the time when the related cost is deducted from refinery inventory in accordance with accounting procedures generally applied by the refiner concerned.

**Dealer Tank Wagon (DTW) Sales:** Wholesale sales of gasoline priced on a delivered basis to a retail outlet.

**Distillate Fuel Oil:** A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels.

1. **No. 1 Distillate:** A petroleum distillate which meets the specifications for No. 1 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 1 diesel fuel as defined in ASTM Specification D 975, with distillation temperatures of 420 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.

a. **No. 1 Diesel Fuel:** A volatile distillate fuel oil with a boiling range between 300-575 degrees Fahrenheit and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D 975.

b. **No. 1 Fuel Oil:** A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.

2. **No. 2 Distillate:** A petroleum distillate which meets the specifications for No. 2 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 2 diesel fuel as defined in ASTM Specification D 975.

a. **No. 2 Diesel Fuel:** A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees Fahrenheit for use in high speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D 975.

- **Low Sulfur:** The sulfur level does not exceed 0.05 percent by weight.

- **High Sulfur:** The sulfur level is above 0.05 percent by weight.

b. **No. 2 Fuel Oil:** A distillate fuel oil for use in atomizing type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees Fahrenheit.

NOTE: Published volume and price data for No. 2 diesel fuel and No. 2 fuel oil are classified in accordance to what the product was sold as, regardless of the actual specifications of that product; i.e., if a No. 2 distillate was sold as a heating or fuel oil, the volume and price would be published in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

3. **No. 4 Fuel:** A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel en-

gines that conforms to ASTM Specification D 975.

**First Purchase (of crude oil):** An equity (not custody) transaction involving an arms-length transfer of ownership of crude oil associated with the physical removal of the crude oil from a property (lease) for the first time. A first purchase normally occurs at the time and place of ownership transfer where the crude oil volume sold is measured and recorded on a run ticket or other similar physical evidence of purchase. The reported cost is the actual amount paid by the purchaser, allowing for any adjustments (deductions or premiums) passed on to the producer or royalty owner.

**F.o.b. Price (free on board):** The f.o.b. price is the price actually charged at the producing country's port of loading. The reported price includes deductions for any rebates and discounts or additions of premiums where applicable and should be the actual price paid with no adjustment for credit terms.

**Gas Plant Operator:** Any firm, including a gas plant owner, which operates a gas plant and keeps the gas plant records. A gas plant is a facility in which natural gas liquids are separated from natural gas, or in which natural gas liquids are fractionated or otherwise separated into natural gas liquid products or both. For the purposes of this publication, gas plant operator data are contained in the refiner categories.

**Gasohol:** A blend of finished motor gasoline and alcohol (generally ethanol but sometimes methanol) in which 10 percent or less of the product is alcohol. For the purposes of this publication, gasohol may be included in any of the types of gasoline, depending on how it was marketed.

**Industrial:** Firms engaged in mining, construction, or manufacturing.

**Kerosene:** A petroleum distillate that has a maximum distillation temperature of 401 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are the two grades designated in ASTM D3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum endpoint of 625 degrees Fahrenheit. Kerosene is used in space heaters, cook stoves, and water

heaters; it is suitable for use as an illuminant when burned in wick lamps.

**Kerosene-Type Jet Fuel:** A quality kerosene product with maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit. The fuel is designated in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). A relatively low freezing point distillate of the kerosene type used primarily for commercial turbojet and turboprop aircraft engines.

**Landed Cost:** Landed cost represents the dollar per barrel price of crude oil at the port of discharge. Includes charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

**Motor Gasoline (Finished):** A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D 439-88 or Federal Specification VV-G-1690B, include a boiling range of 122 to 158 degrees Fahrenheit at the 10-percent recovery point to 365 to 374 degrees Fahrenheit at the 90-percent recovery point. "Motor Gasoline" includes conventional gasoline, oxygenated gasoline (EPA approved), and reformulated gasoline. Blendstock (including ethanol and MTBE) are excluded until blending has been completed.

1. **Conventional Gasoline:** Motor gasoline not included in the oxygenated or reformulated gasoline categories. Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).
2. **Oxygenated Gasoline:** Gasoline formulated for use in motor vehicles that is intended for use in EPA approved carbon monoxide (CO) nonattainment State programs. Excludes reformulated gasoline, oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB).
3. **Reformulated Gasoline:** Gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of



the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Includes oxygenated fuels program reformulated gasoline (OPRG). Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Within each of these three types of gasoline are the following three grades:

- a. **Regular Gasoline:** Gasoline having an anti-knock index  $((R + M)/2)$  greater than or equal to 85 and less than 88.
- b. **Midgrade Gasoline:** Gasoline having an antiknock index  $((R + M)/2)$  greater than or equal to 88 and less than or equal to 90.
- c. **Premium Gasoline:** Gasoline having an antiknock index  $((R + M)/2)$  greater than 90.

NOTE: For this publication, gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades above may be 2 or more octane points lower.

**MTBE (methyl tertiary butyl ether):** An ether eligible for gasoline blending, blends up to 15.0 percent by volume MTBE which must meet the ASTM D 4814 Specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends.

**Naphtha:** A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400 degrees Fahrenheit.

**Naphtha-Type Jet Fuel:** A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

**OPEC:** Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are

Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Prior to January 1, 1993, Ecuador was a member of OPEC.

**OPRG:** "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area during an oxygenated fuels program control period.

**Other End Users:** For motor gasoline, all direct sales to end users other than those made through company outlets. For No. 2 distillate, all direct sales to end users other than residential, commercial/institutional, industrial sales, and sales through company outlets. Included in the "other end users" category are sales to utilities and agriculture.

**Oxygenated Gasoline:** See Motor Gasoline.

**Oxygenates:** Any substance which, when added to gasoline, increases the amount of oxygen in that gasoline blend.

**PAD District:** Petroleum Administration for Defense Districts

#### **PAD District I:**

Subdistrict IA: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont.

**Subdistrict IB:** Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania.

**Subdistrict IC:** Florida, Georgia, North Carolina, South Carolina, Virginia, West Virginia.

#### **PAD District II:**

Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Wisconsin.

#### **PAD District III:**

Alabama, Arkansas, Louisiana, Mississippi, New Mexico, Texas, Federal Offshore Gulf.

#### **PAD District IV:**

Colorado, Idaho, Montana, Utah, Wyoming.

## **PAD District V:**

Alaska (North Slope and Other Mainland), Arizona, California, Hawaii, Nevada, Oregon, Washington, Federal Offshore California.

**Petrochemical Sales:** Sales of propane to a manufacturer of chemicals derived from petroleum or natural gas, or from raw materials derived from petroleum or natural gas.

**Petroleum Products:** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes, plus aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Prime Supplier:** A firm that produces, imports, or transports selected petroleum products across State boundaries and local marketing areas, and sells the product to local distributors, local retailers, or end users.

**Propane, Consumer Grade:** A normally gaseous paraffinic compound ( $C_3H_8$ ), which includes all products covered by Natural Gas Policy Act (NGPA) Specifications for commercial use and HD-5 propane and ASTM Specification D 1835. It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It does not include the propane portion of any natural gas liquids (NGL) mixes; i.e., butane-propane mix.

**Rack Sales:** Wholesale truckload sales or smaller of gasoline where title transfers at a terminal.

**RBOB:** "Reformulated Gasoline Blendstock for Oxygenate Blending" is a motor gasoline blending component which, when blended with a specified type and percentage of oxygenate, meets the definition of reformulated gasoline.

**Reference Month:** The calendar month and year to which the reported cost, price, and volume information relates.

**Refiner:** A firm or the part of a firm that refines products or blends and substantially changes products, or refines liquid hydrocarbons from oil and gas field gases, or recovers liquefied petroleum gases

incident to petroleum refining and sells those products to resellers, retailers, resellers/retailers, or ultimate consumers. "Refiner" includes any owner of products which contracts to have those products refined and then sells the refined products to resellers, retailers, or ultimate consumers. For the purposes of this publication, gas plant operator data are included in this category.

**Reformulated Gasoline:** See Motor Gasoline.

**Reseller:** A firm (other than a refiner) that carries on the trade or business of purchasing refined petroleum products and reselling them to purchasers other than ultimate consumers.

**Reseller/Retailer:** A firm (other than a refiner) that carries on the trade or business activities of both a reseller and a retailer; i.e., purchasing refined petroleum products and reselling them to purchasers who may be either ultimate or other than ultimate consumers.

**Residential:** Sales of No. 2 distillate and propane to individual customers or households (as opposed to businesses or institutions) who ostensibly use the fuel in a residence for space heating, cooking, etc. Sales to apartment buildings/complexes or to other multi-family dwellings are excluded from the "Residential Sales" category and are included in the "Commercial/Institutional Sales" category.

**Residual Fuel Oils:** The topped crude of refinery operations, which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D 396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Retailer:** A firm (other than a refiner, reseller, or reseller/retailer) that carries on the trade or business of purchasing refined petroleum products and reselling them to ultimate consumers.

**Retail Outlet:** Any company-owned outlet (e.g., service station) selling gasoline, on-highway low-sulfur diesel fuel, or propane for on-highway vehicle use which is under the direct control of the firm filing the EIA-782 by virtue of the ability to set the retail product price and directly collect all or part of the retail margin. This category includes retail outlets: (1) be-

ing operated by salaried employees of the company and/or its subsidiaries and affiliates, and/or (2) involving personnel services contracted by the firm.

**Sale:** The transfer of title from the seller to a buyer for a price. Excludes intrafirm transfers, products consumed directly by the reporting firm, or sales of bonded fuel. Also excludes products delivered/loaned to exchange partners, except where the amount supplied exceeds the amount received and the differential is invoiced as a sale during the reference month.

**Sales for Resale:** Sales of refined petroleum products to purchasers who are other-than-ultimate consumers; wholesale sales.

**Sales to End Users:** Sales made directly to the consumer of the product. Includes bulk consumers such as agriculture, industry, and utilities, as well as residential and commercial consumers.

**Sales Type:** Sales categories of sales to end users and sales for resale.

**Unit Price:** Total revenue derived from the sale of product during the reference month divided by the total volume sold; also known as the weighted average price. Total revenue excludes all taxes but includes transportation costs that were paid as part of the purchase price.

**United States:** For the crude oil statistics, the United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American Territories and Possessions. For the petroleum products data, United States includes the 50 States and the District of Columbia.

**Wellhead:** The point at which the crude (and/or natural gas) exits the ground. Following historical precedent, the volume and price for crude oil production are labeled as "wellhead," even though the cost and volume are now generally measured at the lease boundary. In the context of domestic crude price data, the term "wellhead" is the generic term used to reference the production site or lease property.

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